



[Home](#) > [Statistics](#) > [Microdata and TableBuilder](#) > [TableBuilder](#)

TableBuilder

Create, save and download your own tables. Find out about costs and how to access.

Released 8/11/2021

 [Log into TableBuilder \(https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml\)](https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml)

TableBuilder is a flexible way to access detailed data where you can:

- [build your own tables \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table\)](/statistics/microdata-tablebuilder/tablebuilder/building-basic-table) based on underlying microdata
- select the data items of your choice for cross-tabulation
- display counts, [percentages \(/statistics/microdata-tablebuilder/tablebuilder/cell-counts-mesh-blocks-sorting-totals-and-other-table-options\)](/statistics/microdata-tablebuilder/tablebuilder/cell-counts-mesh-blocks-sorting-totals-and-other-table-options) and relative standard errors in your table
- calculate [means and medians \(/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables\)](/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables) for continuous variables such as income
- tables are automatically treated to protect [privacy and confidentiality \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error) before the output is provided to you
- [download tables as CSV, Excel and SDMX files \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table\)](/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table)
- [create, save and share customised geographic areas \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data) and recodes with other registered users
- see [Topics \(/statistics/microdata-tablebuilder/tablebuilder/topics\)](/statistics/microdata-tablebuilder/tablebuilder/topics) for a full list of files in TableBuilder

Cost

Data series are per organisation - add unlimited members to your organisation at any time at no additional charge.

Cost for TableBuilder

Service	Price
Census TableBuilder Basic	Free
Census TableBuilder Pro	Free for organisation members*
Businesses in Australia	Free
TableBuilder - other datasets	Free**

*Contact microdata.access.abs.gov.au ([mailto:microdata.access@abs.gov.au?Subject=I want to join my organisation and/or subscribe to ABS TableBuilder&Body=Dear ABS%0D%0A%0D%0APlease join me to my organisation in Registration Centre: %0D%0A%0D%0AName: %0D%0AUser ID: %0D%0AOrganisation: %0D%0AContact phone number: %0D%0A%0D%0AI would like to enquire about subscribing to the following TableBuilder datasets:%0D%0A\(list here\)%0D%0A%0D%0AAvailable datasets:%0D%0Ahttps://www.abs.gov.au/statistics/microdata-tablebuilder/tablebuilder/topics%0D%0A](mailto:microdata.access@abs.gov.au?Subject=I%20want%20to%20join%20my%20organisation%20and%20or%20subscribe%20to%20ABS%20TableBuilder&Body=Dear%20ABS%20%0D%0A%0D%0APlease%20join%20me%20to%20my%20organisation%20in%20Registration%20Centre%0D%0A%0D%0AName%3A%0D%0AUser%20ID%3A%0D%0AOrganisation%3A%0D%0AContact%20phone%20number%3A%0D%0A%0D%0AI%20would%20like%20to%20enquire%20about%20subscribing%20to%20the%20following%20TableBuilder%20datasets%3A%0D%0A(list%20here)%0D%0A%0D%0AAvailable%20datasets%3A%0D%0Ahttps://www.abs.gov.au/statistics/microdata-tablebuilder/tablebuilder/topics%0D%0A)) if you have not automatically been joined to your organisation in the [Registration Centre \(https://registrationcentre.abs.gov.au/registration/login.jsp#OUTSIDE_PROC\)](https://registrationcentre.abs.gov.au/registration/login.jsp#OUTSIDE_PROC)

**See the [TableBuilder Topics \(/statistics/microdata-tablebuilder/tablebuilder/topics\)](/statistics/microdata-tablebuilder/tablebuilder/topics) page for more.

How to access

1. [Register \(https://registrationcentre.abs.gov.au/registration/register.jsp#OUTSIDE_PROC\)](https://registrationcentre.abs.gov.au/registration/register.jsp#OUTSIDE_PROC) using your organisation email address (if applicable) to automatically join your organisation in the Registration Centre.
 - When you register, you are automatically granted access to Census TableBuilder Basic and Businesses in Australia
 - All organisation members are also automatically granted access to Census TableBuilder Pro (free) and to the products your organisation has access to.

2. [Log in \(https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml\)](https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml) to access TableBuilder using your Registration Centre ID and password.

Once registered, see [Getting started \(/statistics/microdata-tablebuilder/tablebuilder/getting-started\)](#) for information on how to use the TableBuilder system, as well as the TableBuilder user guide (links on the left of this page)

Privacy policy

The [ABS privacy policy \(/about/legislation-and-policy/privacy/privacy-abs\)](#), [Census privacy policy \(/census/about-census/keeping-your-information-safe\)](#) and [TableBuilder privacy impact assessment \(/about/legislation-and-policy/privacy/privacy-impact-assessments/2022+TableBuilder+PIA.pdf\)](#) outline how the ABS handles any personal information that you provide to us.

Topics

List of datasets available in TableBuilder, summary information, links to publications and data items

Released 19/11/2021

TableBuilder datasets are grouped into themed data series. You can subscribe to one or more data series in TableBuilder. When you subscribe to a data series, you and all members of your organisation can access all of the datasets within that data series. See [How to access \(/statistics/microdata-tablebuilder/tablebuilder#how-to-access\)](#) for more information, or email microdata.access@abs.gov.au ([mailto:microdata.access@abs.gov.au](mailto:microdata.access@abs.gov.au?Subject=I%20want%20to%20access%20ABS%20data%20in%20TableBuilder&Body=Dear%20ABS%20Microdata%20team,%20I%20would%20like%20to%20register%20my%20organisation%20for%20TableBuilder%20access,%20and/or%20add%20the%20following%20data%20series%20to%20my%20organisation%20account:%20User%20ID:%20Organisation%20Name:%20Organisation%20ABN%20(if%20applicable):%20Organisation%20Street%20and%20Postal%20Address:%20Organisation%20Email%20Domains:%20Contact%20Officer%20User%20IDs:%20Data%20series%20required:%20Many%20thanks,) (mailto:microdata.access@abs.gov.au?Subject=I want to access ABS data in TableBuilder&Body=Dear ABS Microdata team,%0D%0A%0D%0APlease register my organisation for TableBuilder access, and/or add the following data series to my organisation account:%0D%0A%0D%0AUser ID: %0D%0AOrganisation Name: %0D%0AOrganisation ABN (if applicable):%0D%0AOrganisation Street and Postal Address:%0D%0AOrganisation Email Domains:%0D%0AContact Officer User IDs:%0D%0AData series required: %0D%0A%0D%0AMany thanks,)) to organise access to a data series for your organisation.

Datasets and reference periods in TableBuilder are listed below. For datasets in other systems see [MicrodataDownload \(/statistics/microdata-tablebuilder/microdatadownload/topics\)](#) and [DataLab \(/statistics/microdata-tablebuilder/datalab/topics\)](#), or all topics in [Available microdata and TableBuilder \(/statistics/microdata-tablebuilder/available-microdata-tablebuilder\)](#).

Free Data Series

The below data series are available to TableBuilder users for free. These data series are licensed to registered organisations, whose users can then access them as part of their organisations licence. "Businesses in Australia" and "Census TableBuilder Basic" are available to all individual users for free, regardless of any organisation affiliation. For more information, see [How to access. \(/statistics/microdata-tablebuilder/tablebuilder#how-to-access\)](#) Please email microdata.access@abs.gov.au ([mailto:microdata.access@abs.gov.au?Subject=I want to add a data series to my organisation's licences in TableBuilder&Body=Dear ABS Microdata team,%0D%0A%0D%0APlease add the following data series for TableBuilder to the below organisation in Registration Centre:%0D%0A%0D%0AUser Organisation: %0D%0AUser ID: %0D%0AData series required: %0D%0A%0D%0AMany thanks,\)](mailto:microdata.access@abs.gov.au?Subject=I%20want%20to%20add%20a%20data%20series%20to%20my%20organisation's%20licences%20in%20TableBuilder&Body=Dear%20ABS%20Microdata%20team,%20%0D%0A%0D%0APlease%20add%20the%20following%20data%20series%20for%20TableBuilder%20to%20the%20below%20organisation%20in%20Registration%20Centre:%20%0D%0A%0D%0AUser%20Organisation:%20%0D%0AUser%20ID:%20%0D%0AData%20series%20required:%20%0D%0A%0D%0AMany%20thanks,) to organise access to a data series for your organisation.

Aboriginal and Torres Strait Islander Peoples

Aboriginal and Torres Strait Islander Peoples (free to members of registered organisations)

Dataset	Description	Data item list	Release date
National Aboriginal and Torres Strait Islander Health, 2018-19 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-aboriginal-and-torres-strait-islander-health-australia)	Collects information on the health and wellbeing of Aboriginal and Torres Strait Islander people.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-aboriginal-and-torres-strait-islander-health-australia/natsihs%201819%20tablebuilder%20data%20item%20list.xls)	26/03/2020
National Aboriginal and Torres Strait Islander Health Survey, Core Content - Risk Factors and Selected Health Conditions, 2012-13 (https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4715.0.30.003Main+Features12012-13)	Collects information on the health and wellbeing of Aboriginal and Torres Strait Islander people.	Data items (https://www.abs.gov.au/AUSSTATS/subscriber.nsf/log?openagent&tablebuilder%202012-13%20australian%20aboriginal%20and%20torres%20strait%20islander%20health%20survey%20core%20content%20data%20item%20list.xls&4715.0.30.003&Data%20Cubes&E60F12BC721046A0CA257E8F001FF81C&0&2012-13&28.07.2015&Latest)	28/07/2015
National Aboriginal and Torres Strait Islander Health Survey, Detailed Conditions and Other Health Data, 2012-13 (https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4715.0.30.001Main+Features12012-13)	Collects information on the health and wellbeing of Aboriginal and Torres Strait Islander people.	Data items (https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&4715030001_TableBuilder_Data_Item_List.xls&4715.0.30.001&Data%20Cubes&63B16186E2771C3ECA257EA000156B34&0&2012-13&14.08.2015&Latest)	28/08/2014
Aboriginal and Torres Strait Islander Health Survey, Nutrition and Physical Activity, 2012-13 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-aboriginal-and-torres-strait-islander-health-survey-nutrition-and-physical-activity)	Provides key health indicators of the Aboriginal and Torres Strait Islander population. Demographic information includes education, employment, income, languages and household information. Nutrition and physical activity information includes sedentary behaviour, selected health conditions, biomedical information, health risk factors and food.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-aboriginal-and-torres-strait-islander-health-survey-nutrition-and-physical-activity/4715030002_TableBuilder_Data_ItemList.xls)	17/07/2015
National Aboriginal and Torres Strait Islander Social Survey, 2014-15 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-aboriginal-and-torres-strait-islander-social-survey)	Presents information on a range of demographic, social, environmental and economic characteristics of Aboriginal and Torres Strait Islander people, including personal and household characteristics.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-aboriginal-and-torres-strait-islander-social-survey/4720055002do001tablebuilder.xls)	27/05/2016

Australian Census Longitudinal Data

Australian Census Longitudinal Data (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Australian Census Longitudinal Dataset, 2006-2011 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset)	Uses data from the Census of Population and Housing to build a rich longitudinal picture of Australian society. The ACLD can uncover new insights into the dynamics and transitions that drive social and economic change over time, and how these vary for diverse population groups and geographies.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset/20800-2006-2011_tablebuilder.002.xls)	18/12/2013
Australian Census Longitudinal Dataset, 2006-2011-2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset)	Uses data from the Census of Population and Housing to build a rich longitudinal picture of Australian society. The ACLD can uncover new insights into the dynamics and transitions that drive social and economic change over time, and how these vary for diverse population groups and geographies.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset-0/2080_2006_11_16_microdata.xls)	20/03/2019
Australian Census Longitudinal Dataset, 2006-2011-2016-2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset)	Uses data from the Census of Population and Housing to build a rich longitudinal picture of Australian society. The ACLD can uncover new insights into the dynamics and transitions that drive social and economic change over time, and how these vary for diverse population groups and geographies.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset/ACLD%202006_11_16_%2021%20TableBuilder.xlsx)	10/04/2024
Australian Census Longitudinal Dataset, 2011-2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset)	Uses data from the Census of Population and Housing to build a rich longitudinal picture of Australian society. The ACLD can uncover new insights into the dynamics and transitions that drive social and economic change over time, and how these vary for diverse population groups and geographies.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset/2080_2011_2016_tablebuilder.xls)	20/03/2019
Australian Census Longitudinal Dataset, 2011-2016-2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset)	Uses data from the Census of Population and Housing to build a rich longitudinal picture of Australian society. The ACLD can uncover new insights into the dynamics and transitions that drive social and economic change over time, and how these vary for diverse population groups and geographies.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset/ACLD%202011_16_%2021%20TableBuilder.xlsx)	10/04/2024
Australian Census Longitudinal Dataset, 2016-2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset)	Uses data from the Census of Population and Housing to build a rich longitudinal picture of Australian society. The ACLD can uncover new insights into the dynamics and transitions that	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-longitudinal-dataset/8178.0_data_item_list.xls)	10/04/2024

Businesses in Australia

Businesses in Australia (free to individuals)

Dataset	Description	Data item list	Release date
Businesses in Australia, 2018-19 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/business-longitudinal-analysis-data-environment-blade)	Contains all businesses that were active in the Australian economy in the 2018-19 financial year. The data are sourced from the ABS' integrated product, the Business Longitudinal Data Analysis Environment (BLADE) which combines taxation and other administrative data.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/business-longitudinal-analysis-data-environment-blade/8178.0_data_item_list.xls)	30/04/2020

Census of Population and Housing

Census of Population and Housing (Census Basic is free to individuals; Census Pro is free to members of registered organisations)

Dataset	Description	Data item list	Release date
Census of Population and Housing, 2006 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing) Basic (free to individuals) and Pro (free to members of registered organisations)	All Census records for occupied private dwellings with their associated family and person records, and persons from non-private dwellings together with a record for the associated non-private dwelling. Includes age, marital status, citizenship and ancestry, languages, employment and income, journey to work, education, geography, family composition, household and dwelling information.	Data items (https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata?opendocument&navpos=240)	24/08/2009
Census of Population and Housing, 2011 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing) Basic (free to individuals) and Pro (free to members of registered organisations)	All Census records for occupied private dwellings with their associated family and person records, and persons from non-private dwellings together with a record for the associated non-private dwelling. Includes age, marital status, citizenship and ancestry, languages, employment and income, journey to work, education, geography, family composition, household and dwelling information.	Data items (https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata?opendocument&navpos=240)	15/08/2012
Census of Population and Housing, 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing) Basic (free) and Pro (free to members of registered organisations)	All Census records for occupied private dwellings with their associated family and person records, and persons from non-private dwellings together with a record for the associated non-private dwelling. Includes age, marital status, citizenship and ancestry, languages, employment and income, journey to work, education, geography, family composition, household and dwelling information.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing/tablebuilder%20%20quest%2C%20basic%20and%20pro%20data%20items%20list.xlsx)	06/08/2019
Census of Population and Housing, 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing) Basic (free to individuals) and Pro (free to members of registered organisations)	All Census records for occupied private dwellings with their associated family and person records, and persons from non-private dwellings together with a record for the associated non-private dwelling. Includes age, marital status, citizenship and ancestry, languages and income, education, geography, family composition, household and dwelling information.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing/TB_Data_item_list%2019042023.xls)	21/09/2022
Census of Population and Housing: Estimating Homelessness, 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing-estimating-homelessness)	Presents detailed estimates of the prevalence of homelessness in TableBuilder from the ABS' Census of Population and Housing for 2016.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing-estimating-homelessness/2049055002do001_2016.002.xls)	16/08/2019
Census of Population and Housing: Estimating Homelessness, 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing)	Presents detailed estimates of the prevalence of homelessness in TableBuilder from the ABS' Census of Population and Housing for 2021.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing/TB_Data_item_list%2019042023.xls)	27/04/2023
Census of Population and Housing: Index of Household Advantage and Disadvantage, 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing)	The experimental Index of Household Advantage and Disadvantage (IHAD) summarises relative socio-economic advantage and disadvantage for households, using the 2016 Census of Population and Housing.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing/tablebuilder%20%20quest%2C%20basic%20and%20pro%20data%20items%20list.xlsx)	29/10/2019

Childhood Education and Care

Childhood Education and Care (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Childhood Education and Care, 2017 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/childhood-education-and-care-australia)	Collected every three years and is designed to provide a range of information about children aged 0–12 years and their families. The information collected includes the child care arrangements used by parents to care for their children, use of formal and informal care, cost and duration of the care and the attendance of children at preschool programs and other early childhood learning activities.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/childhood-education-and-care-australia/4402055001_data_item_list.xls)	23/04/2018

Crime and Safety

Crime and Safety (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Crime Victimisation, 2012-13 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/crime-victimisation-australia)	Provides data about victims for a selected range of personal and household offences.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/crime-victimisation-australia/4530055002_tb_data_item_list.xls)	28/04/2014
Personal Safety, 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/personal-safety-australia)	Provides data on the nature and extent of violence experienced by men and women since the age of 15.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/personal-safety-australia/4906055001do001_2016%20pss%20microdata%20data%20item%20list.xls)	08/11/2018

Cultural Activities

Cultural Activities (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Cultural Activities, 2017-18 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/cultural-activities-australia)	Designed to provide annual statistics about participation and attendance in selected cultural activities.	Adults data (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/cultural-activities-australia/4921055001001_tb_data_item_list_adults.xls) Children data (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/cultural-activities-australia/4921055001002_tb_data_item_list_children.xls)	28/05/2019
Cultural and Creative Activities, 2021-22 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/cultural-and-creative-activities)	Designed to provide annual statistics about participation and attendance in selected cultural activities.	Adults data (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/cultural-and-creative-activities/cpas_tb_data_item_list_adults_202122.xlsx) Children data (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/cultural-and-creative-activities/cpas_tb_data_item_list_children_202122.xlsx)	21/11/2023

Disability, Ageing and Carers

Disability, Ageing and Carers (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Disability, Ageing and Carers, 2012 (https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4430.0.30.002Main+Features12012)	Provides data on people with a disability, people aged 65 years or more, and assistance providers. Data items include household, family, income, person, conditions, restrictions, specific and broad activities, recipients, and assistance providers.	Data items (https://www.abs.gov.au/AUSSTATS/subscriber.nsf/log?openagent&sdac_tablebuilder_data_item_list.xls&4430.0.30.002&Data%20Cubes&D225D77543231743CA257D0E001AC897&0&2012&08.07.2014&Latest)	08/07/2014
Disability, Ageing and Carers, 2015 (https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/4430.0.30.002Main+Features18102016)	Provides data on people with disability, older people (aged 65 years or more) and people who care for people with disability or older people. Data items include household, family, income, person, conditions, restrictions, specific and	Data items (https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&table%20builder%20data%20item%20list.xls&4430.0.30.002&Data%20Cubes&F6553D12BFA1BC59CA2582960017C7)	18/10/2016

Education and Work

Education and Work (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Education and Work, 2011 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202011%20tablebuilder%20data%20item%20list.xls)	15/05/2012
Education and Work, 2012 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202012%20tablebuilder%20data%20item%20list.xls)	28/05/2013
Education and Work, 2013 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202013%20tablebuilder%20data%20item%20list.xls)	28/03/2014
Education and Work, 2014 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202014%20tablebuilder%20data%20item%20list.xls)	19/05/2015
Education and Work, 2015 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202015%20tablebuilder%20data%20item%20list.xls)	22/02/2016
Education and Work, 2016 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202016%20tablebuilder%20data%20item%20list.xls)	29/11/2016
Education and Work, 2017 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202017%20tablebuilder%20data%20item%20list.xls)	06/11/2017
Education and Work, 2018 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202018%20tablebuilder%20data%20item%20list.xls)	08/11/2018
Education and Work, 2019 (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia)	Includes data on labour force characteristics, participation in study, educational institution, educational attainment, and selected characteristics of apprentices and trainees.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/education-and-work-australia/sew%202019%20tablebuilder%20data%20item%20list.xls)	13/11/2019

Employee Earnings and Hours

Employee Earnings and Hours (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Employee Earnings and Hours, 2023 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/employee-earnings-and-hours-australia)	Detailed earnings and hours statistics for characteristics such as industry, occupation, sex, age, full-time/part-time, and method of setting pay.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/employee-earnings-and-hours-australia/Employee%20Earnings%20and%20Hours%20DIL%20%28microdata%29%20V4.2.xlsx)	10/05/2024
Employee Earnings and Hours, 2018 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/employee-earnings-and-hours-australia)	Detailed earnings and hours statistics for characteristics such as industry, occupation, sex, age, full-time/part-time, and method of setting pay.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/employee-earnings-and-hours-australia/Employee%20Earnings%20and%20Hours%20DIL%20%28microdata%29%20V4.1.xlsx)	11/09/2020
Employee Earnings and Hours, 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/employee-earnings-and-hours-australia)	Detailed earnings and hours statistics for characteristics such as industry, occupation, sex, age, full-time/part-time, and method of setting pay.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/employee-earnings-and-hours-australia/Employee%20Earnings%20and%20Hours%20DIL%20%28microdata%29%20V4.1.xlsx)	29/03/2022

General Social Data

General Social Data (free to members of registered organisations)

Dataset	Description	Data item list	Release date
General Social Survey, 2014 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/general-social-survey-australia)	Includes data on demographic characteristics, health and disability, housing, education, work, income, financial stress, assets and liabilities, information technology, transport, voluntary work, family and community, homelessness, crime and participation in sport and recreational activities.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/general-social-survey-australia/4159030004.xls)	23/09/2015

Income, Housing, Wealth and Expenditure

Income, Housing, Wealth and Expenditure (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Income and Housing, 2015-16 (https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/6540.0Main+Features12015-16)	Provides estimates of income, wealth and housing. These measures can be classified by a range of household, income unit, person or loan characteristics.	Data items (https://www.abs.gov.au/AUSSTATS/subscriber.nsf/log?openagent&sih%20and%20hes%202015-16%20microdata%20item%20list.xls&6540.0&Data%20Cubes&338A5D514B0DF53ECA2582BB000F142B&0&2015-16&29.06.2018&Latest)	29/06/2018
Income and Housing, 2017-18 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/income-and-housing-australia)	Provides estimates of income, wealth and housing. These measures can be classified by a range of household, income unit, person or loan characteristics.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/income-and-housing-australia/sih%202017-18%20data%20item%20list.xlsx)	24/07/2019

Labour Force

Labour Force (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Barriers and Incentives to Labour Force Participation, Retirement and Retirement Intentions, 2018-19 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/barriers-and-incentives-labour-force-participation-retirement-and-retirement-intentions-australia)	Provides detailed information on characteristics of people who are not participating, or not participating fully, in the labour force and the factors that influence them to join or leave the labour force, and on information on retirement trends, the factors which influence decisions to retire, and the income arrangements that retirees and potential retirees have made to provide for their retirement.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/barriers-and-incentives-labour-force-participation-retirement-and-retirement-intentions-australia/B%26I%20and%20R%26R%202018-19%20Data%20Item%20List.xlsx)	28/08/2020
Characteristics of Employment, 2014 to 2023 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/characteristics-employment-australia)	Weekly earnings of employees, casual workers, independent contractors, trade union membership, labour hire, job flexibility, job security.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/characteristics-employment-australia/COE%202023%20Tablebuilder%20Data%20Item%20List.xlsx)	13/03/2024
Jobs in Australia, annually 2011-12 to 2018-19 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/jobs-australia)	Jobs in Australia provides statistics from the Longitudinal Employer Employee Database (LEED) to enable simultaneous analysis of met supply and demand in the Australian labour market. The LEED is a cross-sectional database, which uses administrative tax data to incorporate information from all employees and employers in Australia.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/jobs-and-income-employed-persons/6160000001ds0001_2020-21.xlsx)	17/12/2021
Jobs and Income of Employed Persons, 2019-20 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/jobs-and-income-employed-persons)	Jobs and Income of Employed Persons provides statistics from the Longitudinal Employer Employee Database (LEED) to enable simultaneous analysis of met supply and demand in the Australian labour market. The LEED is a cross-sectional database, which uses administrative tax data to incorporate information from all employees and employers in Australia. From 2019-20, data on migrants has been linked to the LEED and a selection of variables are available in this microdata product.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/jobs-and-income-employed-persons/6160000001ds0001_2020-21.xlsx)	31/05/2023
Jobs and Income of Employed Persons, 2020-21 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/jobs-and-income-employed-persons)	Jobs and Income of Employed Persons provides statistics from the Longitudinal Employer Employee Database (LEED) to enable simultaneous analysis of met supply and demand in the Australian labour market. The LEED is a cross-sectional database, which uses administrative tax data to incorporate information from all employees and employers in Australia. From 2019-20, data on migrants has been linked to the LEED and a selection of variables are available in this microdata product.	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/jobs-and-income-employed-persons/6160000001ds0001_2020-21.xlsx)	13/03/2024
Labour Force Status of Families, annually 2009-2018, quarterly from March 2019 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/labour-force-status-families)	Enables detailed analysis of how families engage with the labour market and provides statistics on broad family dynamics including the number and age of children in the household.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/labour-force-status-families/2021%20families%20data%20Item%20List%20%28tablebuilder%29.xlsx)	11/10/2021
Participation, Job Search and Mobility, Migrants		Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/labour-force-status-families/2021%20families%20data%20Item%20List%20%28tablebuilder%29.xlsx)	

Migrants (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Australian Census and Migrants, 2011, 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-and-migrants-integrated-dataset)	Contains linked data from the Census of Population and Housing and from the Department of Social Services Permanent Migrant Database (PMD).	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-and-migrants-integrated-dataset/3417055001_2016_acmid_data_item_list.xls)	15/10/2019
Australian Census and Migrants, 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-and-migrants-integrated-dataset)	Contains linked data from the 2021 Census of Population and Housing and from the Department of Social Services Permanent Migrant Database (PMD).	Data items (/statistics/microdata-tablebuilder/available-microdata-tablebuilder/permanent-migrants-australia/3417055001_2021_AC MID_Data%20Item%20List_TableBuilder.xlsx)	18/12/2023
Australian Census and Temporary Entrants, 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-and-temporary-entrants-integrated-dataset)	Contains linked data from the 2016 Census of Population and Housing and data on temporary visa holders from the Department of Home Affairs.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-census-and-temporary-entrants-integrated-dataset/3419055001_2016_acteid_data_item_list.xls)	15/10/2019
Australian Census and Temporary Entrants, 2021	Contains linked data from the 2021 Census	Data items (/statistics/microdata-tablebuilder/	

Motor Vehicles

Motor Vehicles (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Census of Motor Vehicles, annually from 2013 to 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-motor-vehicles-australia)	Includes all vehicles registered with a state, territory or motor vehicle authority for unrestricted use on public roads.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-motor-vehicles-australia/mvc%20tb%20data%20item%20list.xls)	27/08/2021
Motor Vehicle Use, 2016, 2018, 2020 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/motor-vehicle-use-australia)	Estimates of road registered vehicle usage including; total and average kilometres travelled, tonnes carried, tonne-kilometres travelled and fuel use.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/motor-vehicle-use-australia/mvu%20tb%20data%20item%20list%201.xls)	01/02/2021
Road Freight Movements, 2014 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/road-freight-movements-australia)	Statistics on tonnes, tonne-kilometres, total distance travelled of freight moved in Australia between selected ASGS statistical areas by road.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/road-freight-movements-australia/rfma14%20tb%20data%20item%20list.xls)	20/09/2017

National Health Survey

National Health Survey (free to members of registered organisations)

Dataset	Description	Data item list	Release date
National Health Survey, 2022 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/)	Includes demographic and geographic information, health risk factors, health conditions and health actions. Additionally, biomedical data for NHS respondents who agreed to participate.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/NHS2022%20TableBuilder%20Data%20item%20list.xlsx)	10/05/2024
National Health Survey, 2020-21 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/)	Includes demographic and geographic information, health risk factors, health conditions and health actions. Additionally, biomedical data for NHS respondents who agreed to participate.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/NHS2020-21%20TableBuilder%20Data%20item%20list.xlsx)	07/12/2022
National Health Survey, 2014-15, 2017-18 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/)	Includes demographic and geographic information, health risk factors, health conditions and health actions. Additionally, biomedical data for NHS respondents who agreed to participate.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/4324055001tb001.xls)	30/04/2019
National Health Survey, 2011-12 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/national-health-survey/)	Includes demographic and geographic information, health risk factors, health conditions and health actions. Additionally, biomedical data for NHS respondents who agreed to participate.	Data items (https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&tablebuilder%202011-12%20national%20health%20survey%20data%20item%20list.xls&4324.0.55.001&Data%20Cubes&E2674E36A0A85B42CA25823B0083CF72&0&2011-12&22.02.2018&Previous)	13/11/2014
		Data items (https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&tablebuilder%202011-12%20national%20health%20survey%20data%20item%20list.xls&4324.0.55.001&Data%20Cubes&E2674E36A0A85B42CA25823B0083CF72&0&2011-12&22.02.2018&Previous)	

Nutrition and Physical Activity

Nutrition and Physical Activity (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Australian Health Survey, Nutrition and Physical Activity, 2011-12 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-health-survey-nutrition-and-physical-activity/)	Includes demographic and geographic information, health risk factors, health conditions and health actions. Additionally, biomedical data for NHS respondents who agreed to participate.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/australian-health-survey-nutrition-and-physical-activity/4324055002_2011_2012_001.xls)	06/11/2015
Australian Health Survey, Core Content - Risk Factors and Selected Health Conditions, 2011-12 (https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&tablebuilder%202011-12%20australian%20health%20survey,%20core%20content%20data%20item%20list.xls&4324.0.55.003&Data%20Cubes&326BB106D0CCB8ADCA257CC900144162&0&2011-12&30.04.2014&Latest)	Provides data for the common topics and combined samples of the National Health Survey and National Nutrition and Physical Activity Survey 2011-12, components of the Australian Health Survey (AHS) 2011-12. The focus of this current release is on the Core Content, primarily health risk factors and selected health conditions, as well as data from the National Health Measures Survey, the biomedical component of the AHS.	Data items (https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&tablebuilder%202011-12%20australian%20health%20survey,%20core%20content%20data%20item%20list.xls&4324.0.55.003&Data%20Cubes&326BB106D0CCB8ADCA257CC900144162&0&2011-12&30.04.2014&Latest)	30/04/2014

Patient Experiences

Patient Experiences (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Patient Experiences, 2016-17 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/patient-experiences-australia/)	Data on access and barriers to, and experiences of, health care services including GPs, specialists, dental professionals, hospitals and EDs.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/patient-experiences-australia/PEX_Microdata_data_item_list.xlsx)	12/04/2018

Preschool Education

Preschool Education (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Preschool Education, annually from 2016 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/preschool-education-australia)	Contains statistics on children enrolled in and attending a preschool program across Australia and is derived from administrative data provided by state and territory and Australian Government education departments and the Catholic Education Office of the Archdiocese of Canberra and Goulburn.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/preschool-education-australia/2013-2023%20Data%20Item%20List%20-%20TableBuilder.xlsx)	10/05/2024
Episodes of workers delivering a preschool program, 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/preschool-education-australia)	Contains statistics on children enrolled in and attending a preschool program across Australia and is derived from administrative data provided by state and territory and Australian Government education departments and the Catholic Education Office of the Archdiocese of Canberra and Goulburn.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/preschool-education-australia/2013-2022%20Data%20Item%20List%20-%20TableBuilder.xlsx)	28/06/2023

Qualifications and Work

Qualifications and Work (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Qualifications and Work, 2018-19 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/qualifications-and-work)	Presents detailed information about the educational history of people and the relevance of each qualification to their working lives.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/qualifications-and-work/quals_and_work_2018_19_microdata_dil.xls)	29/09/2020

Sport and Physical Recreation

Sport and Physical Recreation (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Participation in Sport and Physical Recreation, 2013-14 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/participation-sport-and-physical-recreation-australia)	Data on persons aged 15 years and over who participated in sport and physical activities as players, competitors or physically undertook an activity.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/participation-sport-and-physical-recreation-australia/4177055002001_tb_data_item_list.xls)	18/02/2015

Work-Related Injuries

Work-Related Injuries (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Work-Related Injuries, 2017-18 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-injuries)	People who experienced a work-related injury or illness, including type of injury, job details and work-related injury rates.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-injuries/wri%202017-18%20data%20items%20list.xls)	27/09/2019
Work-Related Injuries, 2021-22 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-injuries)	People who experienced a work-related injury or illness, including type of injury, job details and work-related injury rates.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-injuries/WRI%202021-22%20Data%20Items%20List%20TB.xlsx)	23/03/2023

Work-Related Training and Adult Learning

Work-Related Training and Adult Learning (free to members of registered organisations)

Dataset	Description	Data item list	Release date
Work-Related Training and Adult Learning, 2016-17 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-training-and-adult-learning-australia)	Provides annual statistics about formal study and non-formal learning, with a focus on work-related training and personal interest learning.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-training-and-adult-learning-australia/WRTAL%2016_17%20TableBuilder%20Data%20item%20list.xls)	17/01/2018
Work-Related Training and Adult Learning, 2021 (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-training-and-adult-learning-australia)	Provides annual statistics about formal study and non-formal learning, with a focus on work-related training and personal interest learning.	Data items (https://www.abs.gov.au/statistics/microdata-tablebuilder/available-microdata-tablebuilder/work-related-training-and-adult-learning-australia/WRTAL%2020_21%20TableBuilder%20Data%20item%20list%20.xlsx)	11/03/2022

Paid Data Series

There are currently no TableBuilder datasets that require a paid subscription to access.

Getting started

Registering and logging into TableBuilder, introducing the home page

Released 19/11/2021

Register and log in

After [registering \(/statistics/microdata-tablebuilder/tablebuilder#how-to-access\)](/statistics/microdata-tablebuilder/tablebuilder#how-to-access), navigate to the [Log into your accounts \(/statistics/microdata-tablebuilder/log-your-accounts\)](/statistics/microdata-tablebuilder/log-your-accounts) page and click on [TableBuilder \(https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml\)](https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml) to log in.

Enter your user ID (a number) and your password. Your TableBuilder password is the same as the one you created in the Registration Centre when registering.

When you log in for the first time, you are asked to agree to [Conditions of use \(/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use#tablebuilder\)](/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use#tablebuilder) for TableBuilder. It is important that you read and understand these conditions so that you are using TableBuilder appropriately.

If you forget your credentials, you can use the 'forgotten' links on the log in page to retrieve your user ID or reset your password. You need access to the email address you registered with and your secret question and answer.

Contact microdata.access@abs.gov.au (mailto:microdata.access@abs.gov.au?Subject=Request to unlock Registration Centre/ TableBuilder account&Body=Dear ABS%0D%0A%0D%0AMy Registration Centre/TableBuilder account is locked. Please contact me to help me unlock it.%0D%0A%0D%0AName: %0D%0AUser ID (this is a number): %0D%0AOrganisation: %0D%0AContact phone number: %0D%0A%0D%0A) :

- if you can't remember your secret question and answer
- to unlock your account if you attempt to log in with the wrong password too many times
- if you have [changed your email address \(/statistics/microdata-tablebuilder/tablebuilder/troubleshooting#:~:text=How%20do%20I%20update%20my%20email%20address\)](#) (for example if you have moved to a new organisation or changed your name)

Taking the tour

When you open TableBuilder for the first time, a tour of TableBuilder features opens. The tour takes you through the home page features, saved tables, opening a dataset, creating a table, retrieving data and navigation.

To take the tour again, you can open it from the three vertical dots menu in the top right of the screen.



Home page features

There are a number of useful features on the TableBuilder home page.

The screenshot shows the TableBuilder web application interface. At the top left is the Australian Bureau of Statistics logo. The main header has 'TableBuilder' in large blue text, followed by 'Datasets' and 'Table view' buttons, and a search bar. Below the header, the 'Select dataset or table' section is active, showing a list of datasets on the left and a list of saved tables on the right. The 'Description panel' on the right provides details about the selected dataset, '2016 Census - Cultural Diversity'. Numbered callouts (1-10) highlight specific UI elements: 1 points to the 'Datasets' button, 2 to the 'New table' button, 3 to the 'Saved and predefined tables' button, 4 to the 'Open table' button, 5 to the 'Description panel' header, 6 to the search bar, 7 to the search input field, 8 to the search button, 9 to the 'Tour' button, and 10 to the 'Log out' button.

TableBuilder

Datasets **Table view**

Select dataset or table

Datasets

- Data
 - 2006 Census of Population and Housing
 - 2011 Census of Population and Housing
 - 2016 Census of Population and Housing
 - Census TableBuilder Basic
 - 2016 Census - Cultural Diversity**
 - 2016 Census - Employment, Income and Education
 - 2016 Census - Internal Migration
 - 2016 Census - Selected Dwelling Characteristics
 - 2016 Census - Selected Family Characteristics
 - Census TableBuilder Pro
 - Estimating Homelessness
 - Experimental Index of Household Advantage and Disadvantage
 - 2021 Census of Population and Housing
 - Aboriginal and Torres Strait Islander Peoples
 - Australian Census Longitudinal Data
 - Australian Health Survey, Core Content - Risk Factors and Selected Health Conditions
 - Businesses in Australia (BLADE)
 - Childhood Education and Care
 - Community Engagement with Nature Conservation
 - Crime and Safety
 - Cultural Activities
 - Disability, Ageing and Carers
 - Education and Work
 - Employee Earnings and Hours
 - Family Characteristics
 - General Social Data

Saved and predefined tables

- My saved tables
 - Age x Marital Status
- Data
 - 2016 Census Age by Sex
 - 2016 Census Core Activity Need for Assistance by Age and Sex
 - 2016 Census Indigenous Status by Sex
 - 2016 Census Registered Marital Status by Sex
 - 2016 Census Religious Affiliation by Sex

Description panel

Census of Population Cultural Diversity

This dataset is based on [Place of Usual Residence](#), the place where a person usually lives. It may, or may not be, the place where the person was counted on Census night. Census counts compiled on this basis are less likely to be influenced by seasonal factors such as school holidays and snow seasons, and provide information about the usual residents of an area. The count of persons at their usual residence excludes overseas visitors.

Dataset population: 23,401,891 persons.

For information on data items available for the 2016 Census, see [2016 Census TableBuilder Basic and Pro data item list](#).

Useful Links:

- [Understanding the Census and Census data](#)
- [2016 Census Dictionary](#)
- [2016 Census Data Quality Statements](#)
- [Confidentiality and protecting your data](#)
- [ABS Maps](#) is an online mapping tool to view and compare the Australian Statistical Geography Standard (ASGS) regions

For assistance using TableBuilder, see the [TableBuilder user guide](#).

New table **Open table**

Tour **Log out**

Privacy Disclaimer Feedback

1. Datasets panel

This panel shows the catalogue of datasets that you have access to:

- see [How to access \(/statistics/microdata-tablebuilder/tablebuilder#how-to-access\)](/statistics/microdata-tablebuilder/tablebuilder#how-to-access) to subscribe to additional data series
- click the arrow to expand the folder to display sub-folders (triangle icon) and datasets (cube icon)
- select a dataset with a single click to display any saved or predefined tables for this dataset in the middle panel, and additional information about the dataset in the third panel
- double-click on a dataset to open it and start creating a new table

2. New table button

Select a dataset in the Datasets panel, then click this button to start creating a new table. Alternatively, double-click on the dataset to open it.

3. Saved and predefined tables panel

This panel shows your saved tables and any pre-prepared (predefined) tables that are available for the selected dataset.

- Predefined tables are accessible to all users.
- Saved tables are tables you have saved and are only accessible by you.

When a dataset is selected in the Datasets panel, you can double-click on a table in the Saved and predefined tables panel to open and modify it.

4. Open table button

Select a table in the Saved and predefined tables panel, then click Open table to use and modify the selected table. Alternatively, double-click on the table to open it.

5. Description panel

The panel on the right provides general information about TableBuilder.

When a dataset is selected in the first panel and there is further information available about the dataset or its predefined tables, the information displays in the description panel.

6. Header bar menus

When you first open your TableBuilder session, the Datasets menu (the home page) is the only available menu. When you are on other screens, you can click on this menu to return to the home page.

After you open a dataset an additional menu appears for Table view. You can select this menu to return to your table for the dataset you have most recently opened.

7. Search

Use the Search box in the top right corner to search across all datasets that you have access to. The results show all datasets that include the search term in any field, including:

- dataset names
- your saved table names
- predefined tables
- variables
- categories

8. TableBuilder user guide

Access this user guide at any time by clicking on the question mark icon on the top right corner of the screen. The user guide opens in a new tab so you can click between the user guide and your session.

9. TableBuilder tour

The TableBuilder tour opens when you log into TableBuilder for the first time. You can take the tour again at any time by

clicking on the three vertical dots menu in the top right of the screen.

10. Logging out

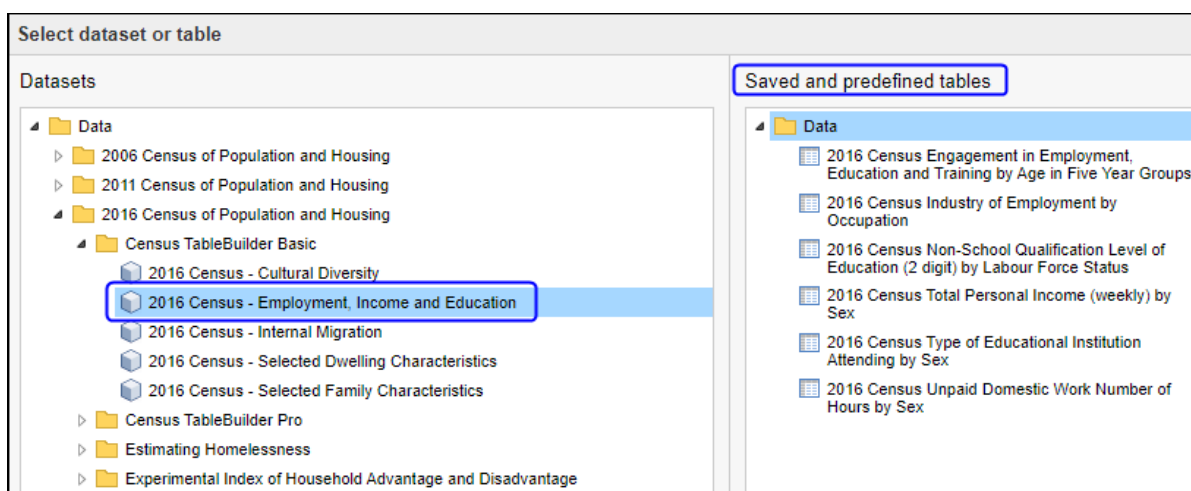
- Log out is located at the top right of the screen in the three vertical dots menu.
- Before logging out, [save \(/statistics/microdata-tablebuilder/tablebuilder/search-and-save#save-tables\)](/statistics/microdata-tablebuilder/tablebuilder/search-and-save#save-tables) any data you want to retain.
- Logging out completely closes your TableBuilder session. If you only close your browser or tab without logging out, your session stays active until it times out.

Predefined tables

Some datasets have tables that have already been created and are available to all users. These are known as predefined tables. If there are predefined tables available for a dataset, they are displayed in the middle panel of the TableBuilder home page when the dataset is selected in the first panel. They can also be accessed by opening a dataset and clicking on the 'Saved and predefined tables' tab at the top of the left panel.

Predefined tables can be used as a starting point and be further modified as required. Predefined tables can be saved or downloaded like any other table.

1. For example, the Census TableBuilder Basic dataset 2016 Census - Employment, Income and Education has six predefined tables.



2. Double click on the 2016 Census Total Personal Income (weekly) by Sex predefined table to open a table showing State by Sex by Total Personal Income (weekly) variables.

Queue table	Clear table	Save table	Options	Remove

Table 1
INCP Total Personal Income (weekly) by STATE (UR) and SEX Sex

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers:
Cell count 540 (30 columns x 18 rows x 1 wafers) total.

STATE (UR) ⓘ	New South Wales			Victoria			Queensland	
SEX Sex ⓘ	Male	Female	Total	Male	Female	Total	Male	Female
INCP Total Personal Income (weekly) ⓘ								
Negative income	-	-	-	-	-	-	-	-
Nil income	-	-	-	-	-	-	-	-
\$1-\$149 (\$1-\$7,799)	-	-	-	-	-	-	-	-
\$150-\$299 (\$7,800-\$15,599)	-	-	-	-	-	-	-	-
\$300-\$399 (\$15,600-\$20,799)	-	-	-	-	-	-	-	-
\$400-\$499 (\$20,800-\$25,999)	-	-	-	-	-	-	-	-
\$500-\$649 (\$26,000-\$33,799)	-	-	-	-	-	-	-	-
\$650-\$799 (\$33,800-\$41,599)	-	-	-	-	-	-	-	-
\$800-\$999 (\$41,600-\$51,999)	-	-	-	-	-	-	-	-
\$1,000-\$1,249	-	-	-	-	-	-	-	-

3. Queue (</statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table>) the table to retrieve and download the data.

	A	B	C	D	E	F	G	H	I
1	Australian Bureau of Statistics								
2	2016 Census - Employment, Income and Education								
3	Table 1								
4	INCP Total Personal Income (weekly) by STATE (UR) and SEX Sex								
5	Counting: Persons Place of Usual Residence								
6									
7	Filters:								
8	Default Summation Persons Place of Usual Residence								
9									
10	STATE (UR)		New South Wales			Victoria			
11	SEX Sex		Male	Female	Total	Male	Female	Total	Male
12	INCP Total Personal								
13	Negative income		15365	15762	31127	13008	14114	27121	9387
14	Nil income		230112	338178	568285	188189	279739	467928	124488
15	\$1-\$149 (\$1-\$7,799)		93717	149939	243660	83856	134653	218512	60202
16	\$150-\$299 (\$7,800-\$15,599)		172801	242687	415480	142343	207618	349961	113204
17	\$300-\$399 (\$15,600-\$20,799)		225558	301014	526577	170390	236490	406877	140328
18	\$400-\$499 (\$20,800-\$25,999)		197430	304266	501695	149347	241960	391306	123693
19	\$500-\$649 (\$26,000-\$33,799)		179033	268987	448017	143311	217523	360833	113457
20	\$650-\$799 (\$33,800-\$41,599)		202877	247778	450648	166656	199449	366104	130948
21	\$800-\$999 (\$41,600-\$51,999)		251895	237469	489367	209859	194356	404214	164932
	\$1,000-\$1,249								

Session timeout

If there has been no activity in TableBuilder for 30 minutes, the session times out. The following message displays and you need to log in again to continue working. Any unsaved data is lost.


TableBuilder log in

Log in to your account

Your session has timed out. Log in again

User ID is a number:
Example 123456789

Password:



Log in

[Register](#) | [Conditions of use](#) | [Forgotten password](#) | [Forgotten user ID](#)

Dataset help information

Access dataset information and data item lists, understand what is being counted in a table

Released 19/11/2021

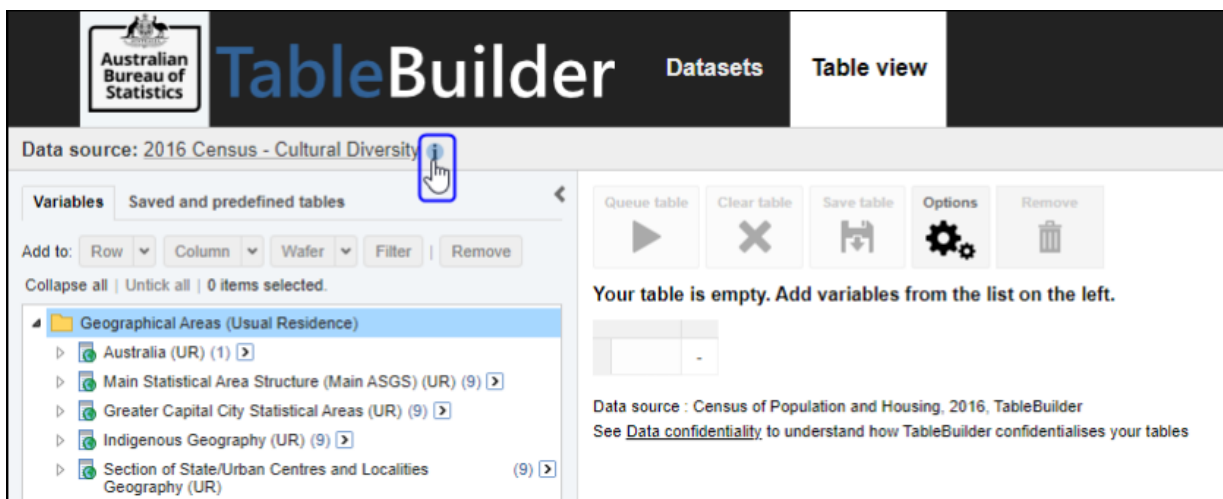
i links

When a dataset is open, there are a number of ways to find out more information about the dataset and variables.

Information is available via the i link next to the dataset title in the Table view.

- For Census datasets, the i link opens Census Dictionary information.
- For all other datasets, the i link opens the dataset's associated microdata publication. This includes the full data item list in the Data downloads section (or in the Downloads tab in older publications).

i links open in a new tab or window so you can switch between your table and the help information.



Census variables also have variable specific information in the Census Dictionary. Click on the i link next to the variable name in the table to open the Census Dictionary description. Data quality information for Census variables can be found using the Data Quality Statements linked to corresponding entries in the Census Dictionary. These statements include information about non-response rates and any known data quality issues for each Census variable.

AGE5P - Age in Five Year Groups

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers:
Cell count 22 (1 columns x 22 rows x 1 wafers) total.

AGE5P - Age in Five Year Groups ⓘ	
0-4 years	-
5-9 years	-
10-14 years	-
15-19 years	-
20-24 years	-
25-29 years	-
30-34 years	-
35-39 years	-
40-44 years	-
45-49 years	-
50-54 years	-
55-59 years	-
60-64 years	-
65-69 years	-
70-74 years	-
75-79 years	-
80-84 years	-
85-89 years	-
90-94 years	-
95-99 years	-
100 years and over	-
Total	-

Census variables and geographies

- [2021 Census Dictionary \(/census/guide-census-data/census-dictionary/2021\)](https://census/guide-census-data/census-dictionary/2021)
- [2021 TableBuilder variables \(/statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing/TB_Data_item_list%2019042023.xlsx\)](https://statistics/microdata-tablebuilder/available-microdata-tablebuilder/census-population-and-housing/TB_Data_item_list%2019042023.xlsx)
- [2016 TableBuilder variables \(https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&tablebuilder%20%20guest,%20basic%20and%20pro%20data%20items%20list.xlsx&2079.0&Data%20Cubes&A4998E1998097AA3CA2584A100765BF5&0&2016&29.10.2019&Latest\)](https://www.abs.gov.au/ausstats/subscriber.nsf/log?openagent&tablebuilder%20%20guest,%20basic%20and%20pro%20data%20items%20list.xlsx&2079.0&Data%20Cubes&A4998E1998097AA3CA2584A100765BF5&0&2016&29.10.2019&Latest)
- [2011 and 2006 TableBuilder variables and geography \(https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata?opendocument&navpos=240\)](https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata?opendocument&navpos=240)
- [Australian Statistical Geography Standard \(/statistics/standards/australian-statistical-geography-standard-asgs-edition-3/jul2021-jun2026\)](https://statistics/standards/australian-statistical-geography-standard-asgs-edition-3/jul2021-jun2026) (ASGS)
- [ABS Maps \(https://dbr.abs.gov.au/absmaps/index.html\)](https://dbr.abs.gov.au/absmaps/index.html), an online mapping tool to view and compare ASGS regions

Confidentiality

To maintain the confidentiality of respondents and to ensure the output of quality data, some system restrictions have been implemented. These restrictions include:

- not allowing you to download individual records
- perturbing the output in your tables
- preventing the cross-tabulation of certain variables

See [Confidentiality \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error\)](https://statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error) and [How the data is processed \(/census/guide-census-data/census-methodology/2021/how-data-processed#introduced-random-error-perturbation\)](https://census/guide-census-data/census-methodology/2021/how-data-processed#introduced-random-error-perturbation).

You need to agree to [Conditions of use \(/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use#tablebuilder\)](/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use#tablebuilder) when using TableBuilder. The ABS may impose a limit on the maximum number of tables per user.

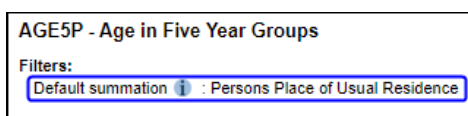
Understanding what is being counted in a table

The type of record you are counting is displayed at the top of the table.

Census datasets provide information about persons, families and dwellings. Select the appropriate dataset based on what you want to count.

Examples of records that may be counted in Census or other TableBuilder datasets include:

- households
- families
- people
- motor vehicles
- businesses



Census of Population and Housing datasets

Place of usual residence - counting persons and families

This is the place where a person usually lives. It may or may not be the place where the person was counted on Census Night. Usual residence data is less likely to be influenced by seasonal factors such as school holidays and snow seasons, and provide information about the usual residents of an area. It is often used by government agencies when allocating funds to regions.

Place of enumeration (location on Census night) - counting persons, families and dwellings

Census place of enumeration is a count of every person in Australia on Census Night, based on where they were located on that night. This may or may not be the place at which they usually live. It includes people who are on long-distance trains, buses or aircraft, or on board vessels in or between Australian ports. It includes overseas visitors.

This type of count provides a snapshot of an area on Census night. Although the Census is timed to attempt to capture the typical situation, holiday resort areas such as the Gold Coast and snow fields may show a large enumeration count compared with the usual residence count.

Persons, 15 years and over

The Census also provides information about the working population. This consists of persons aged 15 years and over who were employed in the week prior to Census night. The data collected relate to all workers, regardless of the hours worked. The Journey to Work data on which this is based are used by transport authorities, associated bodies, organisations and other interested people to plan public transport systems, and for the development and release of residential and commercial land.

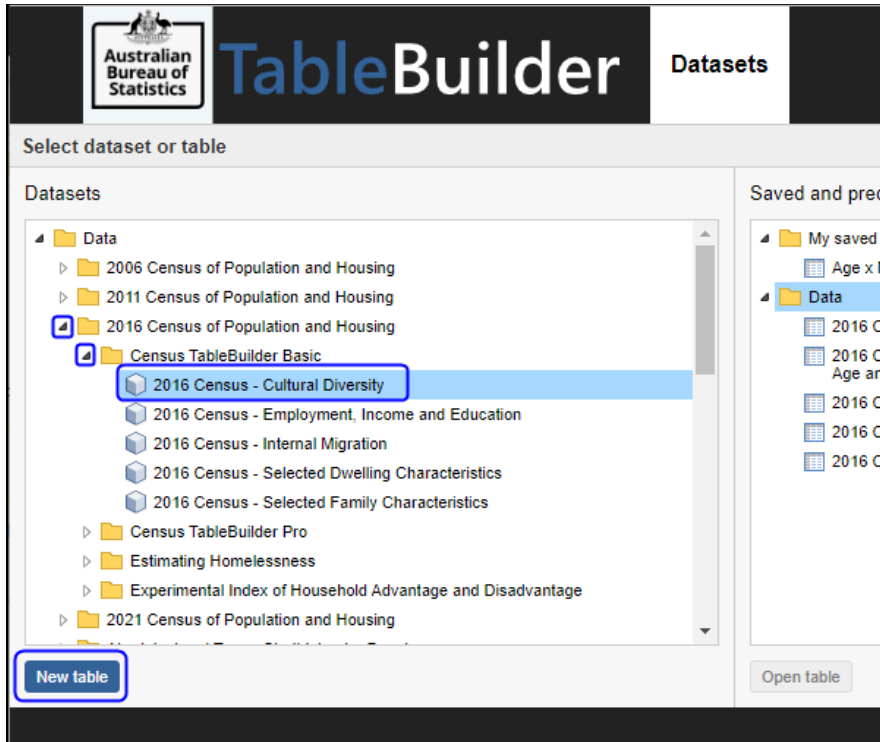
Building a basic table

Open a dataset, using and removing rows and columns, variables and categories

Released 19/11/2021


Open a dataset

On the TableBuilder home page, click the triangle to expand the folder to display the datasets that you have access to. Either double-click the dataset or select the dataset and use the New table button at the bottom of the panel to start creating a new table.



This opens the Table view where you can build and modify tables. There are two panels:

- the left panel shows the variables and categories that can be added to your table
- the right panel is where you build your table



TableBuilder

Datasets
Table view

Data source: 2016 Census - Cultural Diversity ⓘ

Variables
Saved and predefined tables

Add to: Row Column Wafer Filter Remove

Collapse all | Untick all | 0 items selected.

- Geographical Areas (Usual Residence)
 - Australia (UR) (1) >
 - Main Statistical Area Structure (Main ASGS) (UR) (9) >
 - Greater Capital City Statistical Areas (UR) (9) >
 - Indigenous Geography (UR) (9) >
 - Section of State/Urban Centres and Localities Geography (UR) (9) >
 - Significant Urban Areas (UR) (110) >
 - Remoteness Areas (UR) (9) >
 - Local Government Areas (2016 Boundaries) (UR) (9) >
 - State Suburbs (UR) (9) >
 - Postal Areas (UR) (12) >
 - Electoral Divisions
 - Australian Drainage Divisions (UR) (16) >
 - Natural Resource Management Regions (UR) (9) >
 - Geographical Areas from Statistical Area Level 1 (SA1s)
- Selected Person Characteristics
 - AGEP Age (116) >
 - AGE5P Age in Five Year Groups (21) >
 - AGE10P Age in Ten Year Groups (11) >
 - ANC1P Ancestry 1st Response (11) >
 - ANC2P Ancestry 2nd Response (11) >
 - ASSNP Core Activity Need for Assistance (3) >
 - BFPF Country of Birth of Mother (11) >
 - BPLP Country of Birth of Person (11) >
 - BPMP Country of Birth of Father (11) >
 - BPPP Country of Birth of Parents (5) >

Queue table
Clear table
Save table
Options
Remove

Your table is empty. Add variables from the list on the left.

	-

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables

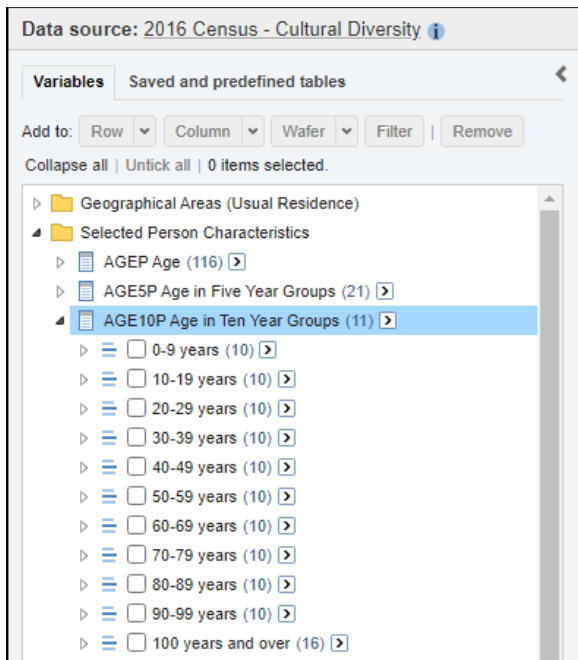
Add variables and categories to a table

Variables and categories

When a dataset is opened in Table view, the left panel shows a list of variables and categories included in that dataset that can be added to your table.

- Variables (or data items) are characteristics about the records in the dataset. For example, Age or Indigenous status (variables) are characteristics about people (records). There may be multiple similar variables in a dataset, such as Age in single years and Age in 5 year groupings.
- Categories are the responses to the questions that have been provided by the respondent. Each variable has multiple categories. For example, the categories of the variable Age in single years may be 0, 1, 2, 3 etc. Categories must be complete (include options for all possible responses) and mutually exclusive (not overlap).

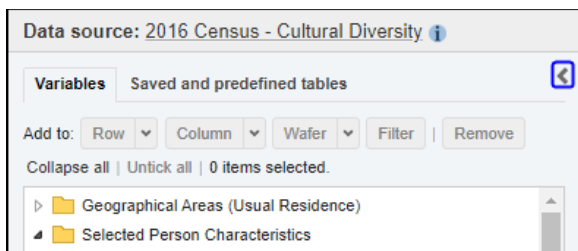
Related variables are grouped together in folders. Click on the folders to view the available variables and categories.



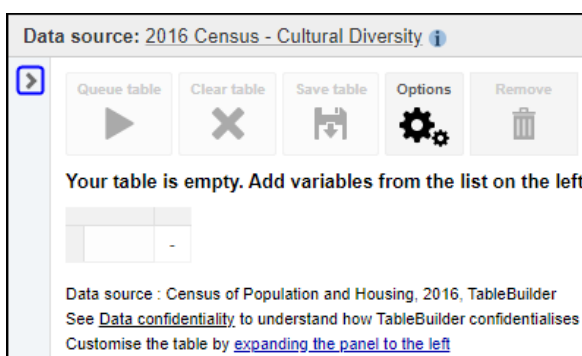
Show and hide left panel

In most cases, when you are in the Table view the left panel is already open. To hide the left panel select the < arrow at the top of the menu. To show it again select the > arrow.

Hide left panel



Show left panel



Rows, columns, wafers and filters

To create a table, select a variable from the list in left panel and add it to the table in the rows, columns, wafers, or filters.

- Rows are horizontal displays of data, with the row headings appearing down the left side of the table.
- Columns are vertical displays of data, with the column headings appearing across the top of the table.
- Wafers are where data is displayed in multiple layers of a table. This can be a useful option for including a time or geography variable for example. When tables using wafers are exported or downloaded to a spreadsheet, each wafer appears on a different tab (if you download in xlsx format). Wafers may also be called layers or sheets.
- Filters are used to limit the data in a table to only display data for specific variable categories. For example, by including

New South Wales in a filter, the table results displays counts for New South Wales only, rather than the whole of Australia. See [Add and remove a filter \(/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-and-remove-a-filter\)](/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-and-remove-a-filter) .

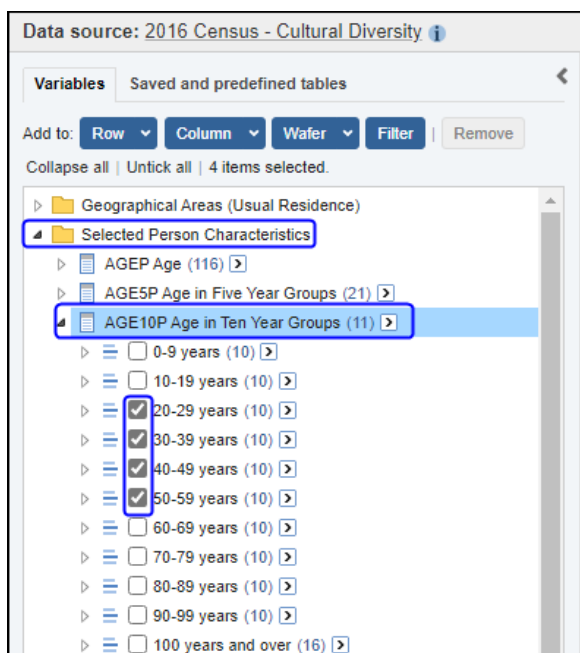
Selecting variables and categories

There are three ways to select variables or categories to be added to a table:

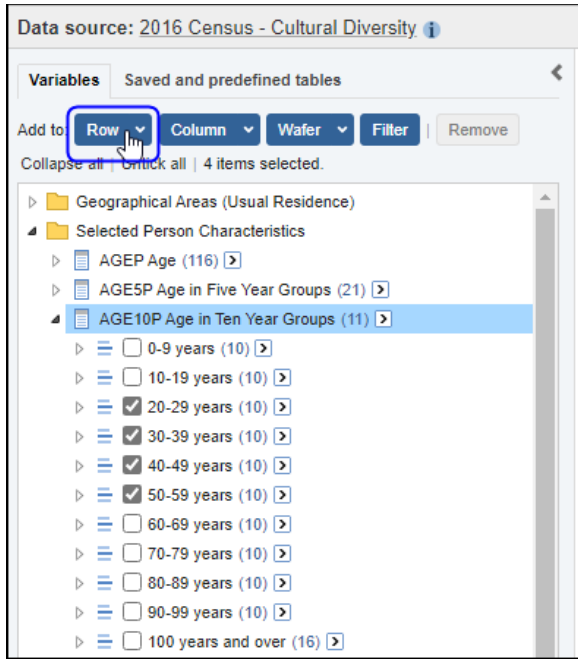
1. Open the variable folder in the left panel and click in the tick boxes for the categories. Use the Add to Row, Column, Filter or Wafer buttons at the top of the left panel. This option is useful for selecting a few categories of a variable. You can also use [Shift-click to select multiple categories \(#shift-click-to-select-multiple-variable-categories\)](#) at once.
2. Drag the variable or category name to the right. A [pop-up menu \(#~:text=Column%2C%C2%A0Row%C2%A0and%C2%A0Wafer%C2%A0pop%2Dup%20menu\)](#) appears with options for adding to Column, Row or Wafer. Dropping the variable onto one of these options selects all categories of the variable at once. Dropping a category adds that category only.
3. Click the arrow at the end of the variable name to show the [Select a level drop-down list \(#-select-a-level-drop-down-list\)](#) . Click on the variable in the drop-down list to select all categories of the variable at once. [Hierarchical variables \(/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#hierarchical-variables\)](#) may have multiple options for selection, e.g. Age in 10 year ranges, Age in 5 year ranges and Age in single years. Then use the Add to Row, Column, Filter or Wafer buttons at the top of the panel.

Using the 2016 Census - Cultural Diversity dataset we create a table with Age in Ten Year Groups in the rows and Registered Marital Status in the columns.

1. In the left panel, click the Selected Person Characteristics folder to expand the list of available variables.
2. Expand the Age in Ten Year Groups folder to see the list of categories.
3. Select the tick boxes next to the categories to be added to the table, in this example 20-29, 30-39, 40-49, 50-59.



4. Click the add to Row button.



5. TableBuilder adds the selected categories to the table. Categories that are in your table are shown in bold in the left panel.

AGE10P - Age in Ten Year Groups

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers:

Cell count 5 (1 columns x 5 rows x 1 wafers) total.

AGE10P - Age in Ten Year Groups ⓘ	
<u>20-29 years</u>	-
<u>30-39 years</u>	-
<u>40-49 years</u>	-
<u>50-59 years</u>	-
Total	-

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
[Queue table](#) to view table annotations

6. When the first variable is added to the table, TableBuilder also adds a default summation (what the table is counting). For 2016 Census - Cultural Diversity dataset, the default summation is counting the number of persons at their place of usual residence. See [Understanding what is being counted in a table \(/statistics/microdata-tablebuilder/tablebuilder/dataset-help-information#understanding-what-is-being-counted-in-a-table\)](#) and [Summation options for continuous variables \(/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables\)](#) sections for more detail on summation.

Data source: 2016 Census - Cultural Diversity

Excel 2007 (.xlsx)(max 16,384 columns x 65,000 rows and < 100,000 cells)

Queue table

Variables Saved and predefined tables

Add to:

Collapse all | Untick all | 0 items selected.

- Geographical Areas (Usual Residence)
 - Selected Person Characteristics
 - AGEP Age (116)
 - AGE5P Age in Five Year Groups (21)

Press the Queue table button to populate your table

AGE10P - Age in Ten Year Groups

Filters:
Default summation : Persons Place of Usual Residence

7. Next, add the Registered Marital Status variable to the column headings. Using the drag and drop shortcut, all the available categories in a particular variable can be added to the table. The Column, Row and Wafer pop-up menu appears. Drop onto Column.

INCP Total Personal Income (weekly) (17)

INGP Indigenous Status (5)

LANP Language Spoken at Home (1)

MDCP Social Marital Status (1)

MSTP Registered Marital Status (6)

RELP Religious Affiliation (1)

RLHP Relationship (1)

RPIP Family/Household Type (1)

SEXP Sex (2)

Column

Row

Wafer

8. TableBuilder adds all the available categories from Marital Status to the column headings.

AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status

Filters:
Default summation : Persons Place of Usual Residence

Wafers:

Cell count 35 (7 columns x 5 rows x 1 wafers) total.

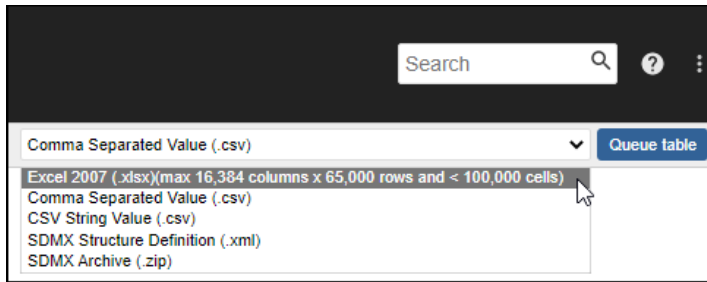
MSTP Registered Marital Status	Never married	Widowed	Divorced	Separated	Married	Not applicable	Total
AGE10P - Age in Ten Year Groups							
<u>20-29 years</u>	-	-	-	-	-	-	-
<u>30-39 years</u>	-	-	-	-	-	-	-
<u>40-49 years</u>	-	-	-	-	-	-	-
<u>50-59 years</u>	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
[Queue table to view table annotations](#)

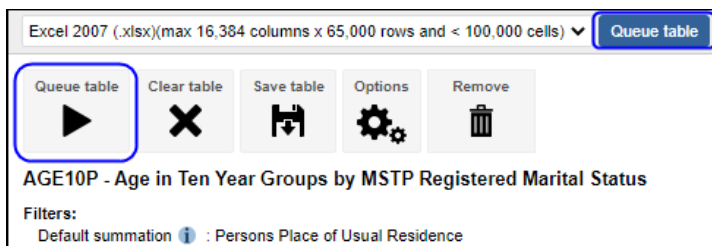
Queue and download a table

1. Once you have finished building your table structure, you need to submit the table to the queue and then download it to see the data. Select a download format at the top right of the window. Tables can be downloaded in the following formats:

- Excel 2007 (.xlsx) (max 16,384 columns x 65,000 rows and < 100,000 cells)
- Comma Separated Value (.csv)
- CSV string value (.csv)
- SDMX Structure Definition (.xml)
- SDMX Archive (.zip)



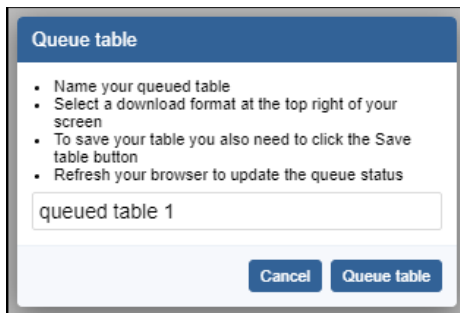
2. After selecting your preferred format, click one of the Queue table buttons.



3. Enter a unique name for the table and click Queue table.

Do not use these characters in your table name as the table will not generate:

- ? * < > / \ |



4. TableBuilder displays a message that the request has been successfully added to the table queue. Your table data will be available for download once it has completed.

- Small tables normally complete within a few seconds or a minute.
- Larger tables may take several minutes.
- Very large tables may take several hours.



5. Your table has been queued but your table structure has not yet been saved. If you also want to [save your table \(/statistics/microdata-tablebuilder/tablebuilder/search-and-save#save-tables\)](/statistics/microdata-tablebuilder/tablebuilder/search-and-save#save-tables) structure so that you can modify or queue it again in the future, you also need to use the Save table button.

6. While a job is queued and processing, you can continue to work on other tables, or add more tables to the queue. You can also log out of TableBuilder and come back later. Your table continues running in the background.

7. To check the status of your queued table, click on the Saved and queued tables link in the confirmation message at the top of the screen. Alternatively, go to the three dots menu in the top right of the screen, and select Saved and queued tables. Click refresh on your browser to update the queue status. Tables may have a status of:

- Queued - table is waiting to be submitted
- Running - table is being populated
- Completed, click here to download - table is ready for you to download to see the data
- Error - try resubmitting your table or contact microdata.access@abs.gov.au (<mailto:microdata.access@abs.gov.au>) if you continue to have issues

8. From the Saved and queued tables view, you can also click on View to open a table structure again and make further changes.

Saved and queued tables																																														
Saved tables			Queued tables, refresh browser to update queued status																																											
<div>My saved tables</div> <div><input type="checkbox"/> save table 1</div> <div><input type="checkbox"/> save table 2</div> <div><input type="checkbox"/> save table 3</div>			<table><tr><th>Name</th><th>Submission date</th><th>Format</th><th>Expiry time</th><th>Status</th><th>Content</th><th>Delete</th></tr><tr><td>queued table 1</td><td>30/08/2022</td><td>EXCEL_2007</td><td>27/09/2022</td><td>Completed, click here to download</td><td>view</td><td><input type="checkbox"/></td></tr><tr><td>queued table 2</td><td>30/08/2022</td><td>CSV</td><td>27/09/2022</td><td>Completed, click here to download</td><td>view</td><td><input type="checkbox"/></td></tr><tr><td>queued table 3</td><td>30/08/2022</td><td>CSV</td><td>27/09/2022</td><td>Completed, click here to download</td><td>view</td><td><input type="checkbox"/></td></tr><tr><td>queued table 4</td><td>30/08/2022</td><td>EXCEL_2007</td><td></td><td>Running</td><td>view</td><td></td></tr><tr><td>queued table 5</td><td>30/08/2022</td><td>CSV</td><td></td><td>Queued</td><td>view</td><td><input type="checkbox"/></td></tr></table>	Name	Submission date	Format	Expiry time	Status	Content	Delete	queued table 1	30/08/2022	EXCEL_2007	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>	queued table 2	30/08/2022	CSV	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>	queued table 3	30/08/2022	CSV	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>	queued table 4	30/08/2022	EXCEL_2007		Running	view		queued table 5	30/08/2022	CSV		Queued	view	<input type="checkbox"/>	
Name	Submission date	Format	Expiry time	Status	Content	Delete																																								
queued table 1	30/08/2022	EXCEL_2007	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>																																								
queued table 2	30/08/2022	CSV	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>																																								
queued table 3	30/08/2022	CSV	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>																																								
queued table 4	30/08/2022	EXCEL_2007		Running	view																																									
queued table 5	30/08/2022	CSV		Queued	view	<input type="checkbox"/>																																								

9. When the table has the status of Completed, click here to download, the table has finished processing and can be downloaded. Tables can be downloaded any number of times until they expire after 28 days.

When you click the download link, your browser commences the download process. Large tables may take some time to download. Browsers may have different download functions, such as:

- Chrome - downloads appear in the bottom left corner of the browser when the file starts downloading.
- Edge - downloads appear in a dropdown menu in the top right corner of the browser when the file finishes downloading. If you are downloading a large table, you may not see any indication your browser is progressing your request until it has completed.
- Firefox - downloads appear in a popup in the top right corner of the browser when the file starts downloading.
- Safari - a popup appears confirming your download, then the downloaded file is available in the top right corner of the browser.

Saved and queued tables

Saved tables

My saved tables

☐ save table 1

☐ save table 2


☐ save table 3

Queued tables, refresh browser to update queued status

Name	Submission date	Format	Expiry time	Status	Content	Delete
queued table 1	30/08/2022	EXCEL_2007	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>
queued table 2	30/08/2022	CSV	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>
queued table 3	30/08/2022	CSV	27/09/2022	Completed, click here to download	view	<input type="checkbox"/>
queued table 4	30/08/2022	EXCEL_2007		Running	view	
queued table 5	30/08/2022	CSV		Queued	view	<input type="checkbox"/>

10. Your table downloads in a zip file. You can open the table from the zip file or save it to your computer.

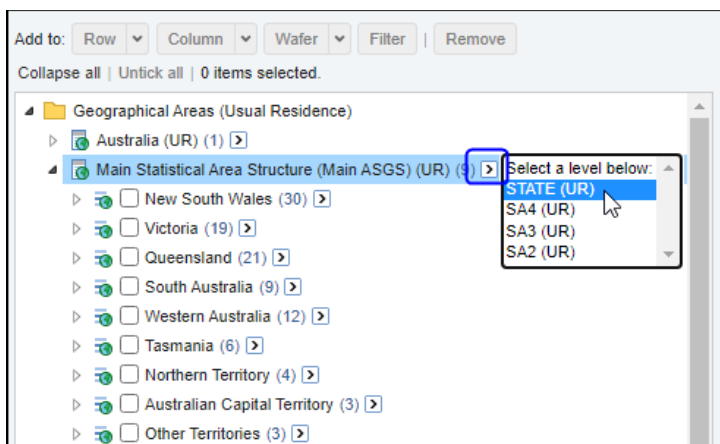
Excel example

	A	B	C	D	E	F	G	H	I
		Australian Bureau of Statistics							
1									
2	2016 Census - Cultural Diversity								
3	AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status								
4	Counting: Persons Place of Usual Residence								
5									
6	Filters:								
7	Default Summation Persons Place of Usual Residence								
8									
9	MSTP Registered Marital Status		Never married	Widowed	Divorced	Separated	Married	Not applicable	Total
10		AGE10P - Age in Ten Year Groups							
11		20-29 years	2649862	2952	19036	28821	530734	0	3231395
12		30-39 years	1184570	7840	130232	105241	1837639	0	3265528
13		40-49 years	696104	24009	329475	161311	1953821	0	3164712
14		50-59 years	423637	67830	479293	153602	1853520	0	2977884
15		Total	4954179	102625	958034	448972	6175712	0	12639521
16	Dataset: Census of Population and Housing, 2016, TableBuilder								
17									
18	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be placed on small cells.							
19									
20									
21	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright								

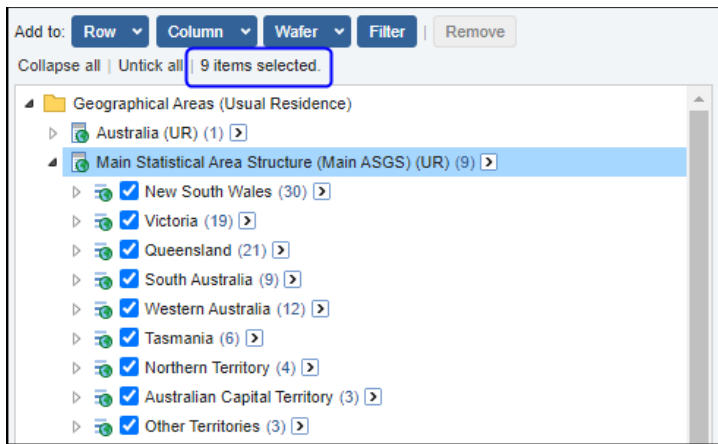
'Select a level' drop-down list

Another way to add a variable to a table is to use the 'Select a level below' in the drop-down list to quickly select all categories. This is useful when there are a large number of categories or for hierarchical variables.

1. Click the arrow to the right of the variable. A drop-down list displays. Main Statistical Area Structure (Main ASGS) is a hierarchical variable so there are multiple options (levels) that you can choose. These are always displayed in descending order, with the smallest categories last.



2. Selecting State from the drop-down list includes all the available categories at this level in the hierarchy. When the Main Statistical Area Structure variable is expanded you can see that TableBuilder has selected all the available categories at this level in the hierarchy. At the top of the hierarchy TableBuilder indicates the number of categories are currently selected (in this case, 9 categories).



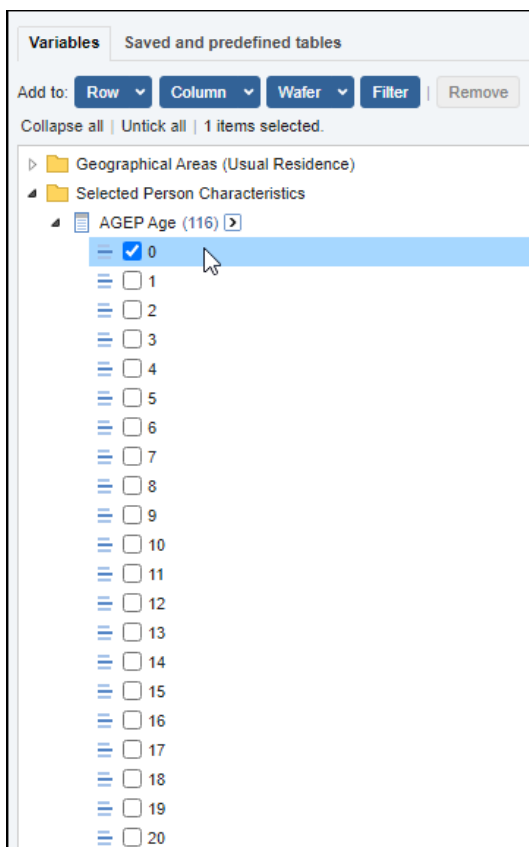
3. Click the Add to Row button. TableBuilder adds all the selected categories to the row headings.

4. [Queue and download \(#queue-and-download-a-table\)](#) to view completed table.

Shift-click to select multiple variable categories

Another way to quickly select multiple categories is to use Shift-click. This selects all categories between your first and last selection. This example adds all categories of the Age variable from 0 to 18.

1. In the left panel, expand the Age variable and select the first category in your range (in this case, 0).



2. Hold down the Shift key and click the last category in the range (in this case, 18).

Variables Saved and predefined tables

Add to: **Row** **Column** **Wafer** **Filter** | **Remove**

Collapse all | Untick all | 1 items selected.

- Geographical Areas (Usual Residence)
 - Selected Person Characteristics
 - AGEP Age (116)
 - ☒ 0
 - ☐ 1
 - ☐ 2
 - ☐ 3
 - ☐ 4
 - ☐ 5
 - ☐ 6
 - ☐ 7
 - ☐ 8
 - ☐ 9
 - ☐ 10
 - ☐ 11
 - ☐ 12
 - ☐ 13
 - ☐ 14
 - ☐ 15
 - ☐ 16
 - ☐ 17
 - ☒ 18
 - ☐ 19
 - ☐ 20

3. TableBuilder automatically selects all the categories in between.

Variables Saved and predefined tables

Add to: **Row** **Column** **Wafer** **Filter** | **Remove**

Collapse all | Untick all | 19 items selected.

- Geographical Areas (Usual Residence)
 - Selected Person Characteristics
 - AGEP Age (116)
 - ☒ 0
 - ☒ 1
 - ☒ 2
 - ☒ 3
 - ☒ 4
 - ☒ 5
 - ☒ 6
 - ☒ 7
 - ☒ 8
 - ☒ 9
 - ☒ 10
 - ☒ 11
 - ☒ 12
 - ☒ 13
 - ☒ 14
 - ☒ 15
 - ☒ 16
 - ☒ 17
 - ☒ 18
 - ☐ 19
 - ☐ 20

4. Click Add to Row or Add to Column to add the categories to the table, or click and drag the selected categories to the right into the Column, row, wafer pop-up menu.

Move a variable to a different axis

To swap the columns, rows and wafers, drag and drop the variable names within the table.

1. Starting with a table with Sex in the rows and state in the columns, drag and drop the Sex variable name onto the column headings. Drop the variable once the column header area turns blue.

Queue table Clear table Save table Options Remove

SEXP Sex by STATE (UR)

Filters:
Default summation : Persons Place of Usual Residence

Wafers:
Cell count 30 (10 columns x 3 rows x 1 wafers) total.

SEX	STATE (UR)	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania
Male		-	-	-	-	-	-
Female		-	-	-	-	-	-
Total		-	-	-	-	-	-

2. This adds Sex to the column headings. As there are now two variables in the columns, Sex and State are displayed as nested variables. For more information about nesting, see [Add multiple variables to rows, columns or wafers. \(/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-multiple-variables-to-rows-columns-or-wafers\)](#)

Queue table Clear table Save table Options Remove

SEXP Sex and STATE (UR)

Filters:
Default summation : Persons Place of Usual Residence

Wafers:
Cell count 30 (30 columns x 1 rows x 1 wafers) total.

SEX	STATE (UR)	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory
Male		-	-	-	-	-	-	-	-
Female		-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-

3. Now drag the State variable name onto the row. Drop the variable once the row header area turns blue.

Queue table Clear table Save table Options Remove

SEXP Sex and STATE (UR)

Filters:
Default summation : Persons Place of Usual Residence

Wafers:
Cell count 30 (30 columns x 1 rows x 1 wafers) total.

SEX	STATE (UR)	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory
Male		-	-	-	-	-	-	-	-
Female		-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-

Data source : Census of Population and Housing, 2016, TableBuilder

4. The table updates to show State in the rows.

Queue table

Clear table

Save table

Options

Remove

STATE (UR) by SEXP Sex

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers:

Cell count 30 (3 columns x 10 rows x 1 wafers) total.

SEX P Sex ⓘ	Male	Female	Total
STATE (UR) ⓘ			
New South Wales	-	-	-
Victoria	-	-	-
Queensland	-	-	-
South Australia	-	-	-

5. Variables can also be dragged and dropped to the Wafer area.

Queue table

Clear table

Save table

Options

Remove

STATE (UR) by SEXP Sex

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers: ⓘ SEXP Sex ⓘ

Cell count 30 (3 columns x 10 rows x 1 wafers) total.

	Male	Female	Total
STATE (UR) ⓘ			
New South Wales	-	-	-
Victoria	-	-	-
Queensland	-	-	-
South Australia	-	-	-

6. The table shows Sex in the Wafer and State in the rows. For more information on wafers see [Add a variable to wafers \(/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-a-variable-to-wafers\)](#) .

Queue table

Clear table

Save table

Options

Remove

SEX P Sex by STATE (UR)

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers: Male

SEX P Sex ⓘ

Cell count 30 (1 columns x 10 rows x 3 wafers) total.

STATE (UR) ⓘ	
New South Wales	-
Victoria	-
Queensland	-
South Australia	-

7. Click on Queue table to populate your table and download your data.

Remove a variable

You can remove an entire variable from the table by dragging and dropping the variable name onto the Remove icon above the table. You can drag and drop variables to Remove from rows, columns or wafers.

1. Drag and drop the Marital Status variable name onto Remove.

The screenshot shows the TableBuilder interface. At the top, there are buttons: 'Queue table', 'Clear table', 'Save table', 'Options', and 'Remove'. Below these buttons is a toolbar with icons for 'MSTP Registered' and 'Marital Status'. A blue arrow points from the 'Marital Status' variable name to the 'Remove' button. Below the toolbar, the title 'AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status' is displayed. Under 'Filters', it says 'Default summation : Persons Place of Usual Residence'. Under 'Wafers', it says 'Cell count 35 (7 columns x 5 rows x 1 wafers) total.' Below this is a table with columns: 'Never married', 'Widowed', 'Divorced', 'Separated', and 'Married'. The table has rows for 'AGE10P - Age in Ten Year Groups' and '20-29 years', '30-39 years', '40-49 years', and '50-59 years'.

2. TableBuilder removes the entire variable from the table.

Remove categories

Instead of removing an entire variable, you can use the Remove button at the top of the left panel to remove one or more categories. If categories that have been removed are subsequently re-added, they appear in the order that they were added, not their original order.

For example to remove all the categories of the Marital Status variable from the table:

1. Click the folder icon to expand Marital Status. The categories that are currently in the table appear in bold (in this case, all the categories are in the table).

The screenshot shows the 'MSTP Registered Marital Status' variable expanded in the left panel. It lists six categories: 'Never married', 'Widowed', 'Divorced', 'Separated', 'Married', and 'Not applicable'. Each category has a checkbox next to it. The 'Never married' checkbox is checked, and the 'Not applicable' checkbox is also checked. The other categories are not checked.

2. Select the tick boxes for the categories to be removed from the table (for example Not applicable)
3. Click Remove. TableBuilder removes these categories from the table.



Clear the table

You can remove all variables from your table by using the Clear table button.

1. Click the Clear table icon.



2. TableBuilder confirms the deletion of the table. Click OK. TableBuilder clears the table.

Change datasets

To choose a different dataset, click the Datasets tab in the header menu. This returns you to the TableBuilder home page.

If you can't see the dataset you are interested in, your organisation may not have subscribed to that data series:

- Check which datasets your organisation has access to in [Registration Centre \(https://registrationcentre.abs.gov.au/registration/login.jsp#OUTSIDE_PROC\)](https://registrationcentre.abs.gov.au/registration/login.jsp#OUTSIDE_PROC), using the same user ID and password that you use for TableBuilder.
- To subscribe to additional data series, see [How to access \(/statistics/microdata-tablebuilder/tablebuilder#how-to-access\)](/statistics/microdata-tablebuilder/tablebuilder#how-to-access).
- For a list of all data series and datasets, see [Topics. \(/statistics/microdata-tablebuilder/tablebuilder/topics\)](/statistics/microdata-tablebuilder/tablebuilder/topics)

Opening another dataset clears the current table. If you want to use the current table again, [save the table \(/statistics/microdata-tablebuilder/tablebuilder/search-and-save#save-tables\)](/statistics/microdata-tablebuilder/tablebuilder/search-and-save#save-tables) before switching datasets.

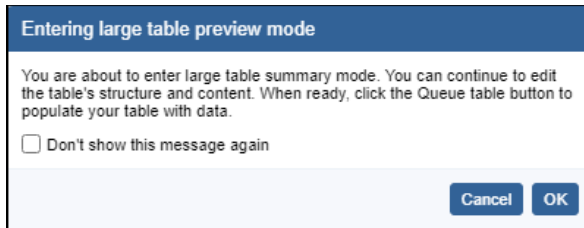
Building advanced tables

Large tables, hierarchical variables, adding multiple variables, using wafers and filters

Released 19/11/2021

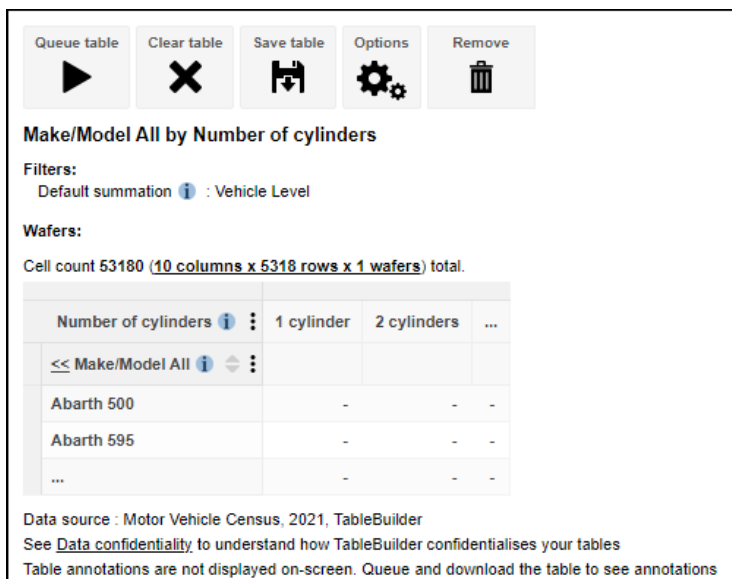
Large tables

When a table has more than 10,000 cells including totals, TableBuilder automatically enters Large table mode and displays a warning message.



When in large table mode, TableBuilder displays a summary version of the full table, with only two categories displaying for each variable. A message indicating that you are working in large table mode and the cell count of the large table displays above the table. This shows the number of rows, columns, wafers and the total cell count. The largest table that can be built in TableBuilder is 40 million cells, including row and column totals and wafers.

Although you can only see part of the table, you can continue using table functions, such as adding and removing variables or categories from the rows, columns and wafers. In large table mode, dragging variables with a large number of categories from one axis to another (such as large geographical classifications) may take some time.



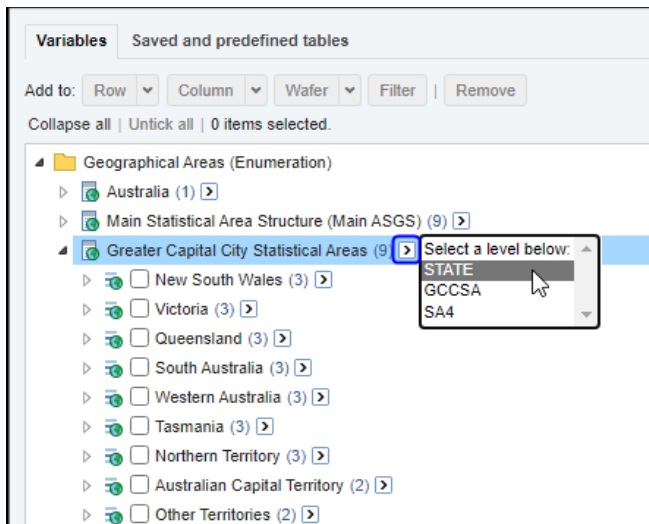
After you have queued your table, very large tables of several million cells may take some time to run, from 30 min to several hours. This depends on how complex your table is, the size of the dataset and the number of other users submitting small and large tables. If you submit a lot of very large tables, your tables are likely to complete more slowly.

Hierarchical variables

Datasets may include variables that are represented as hierarchies. This is where there are different levels of a variable that can be displayed. Geographic variables are often available as hierarchical variables. Examples:

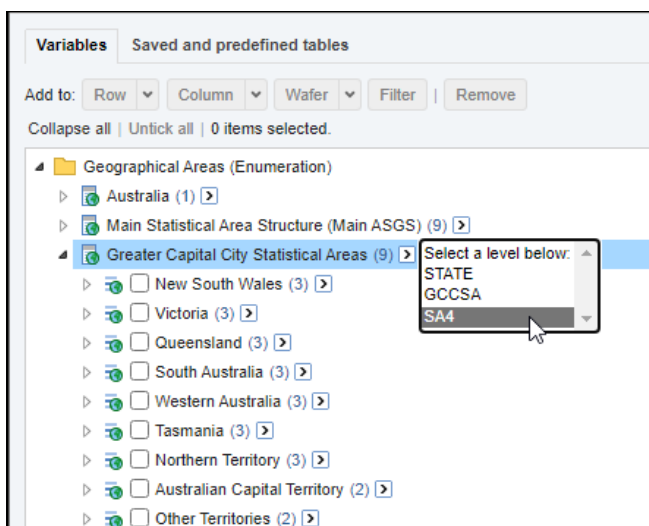
- Greater Capital City Statistical Areas (GCCSA) contains a hierarchy of several levels, with STATE at the top level, GCCSA at the next level, and Statistical Area 4 (SA4) at the lowest level.
- Age variable may contain 10 year groupings at the top level, with 5 year groupings at the next level, and individual ages at the lowest level.

The highest level of the hierarchical variable is always displayed first in the list, the next level is displayed second, and the most detailed level is last.

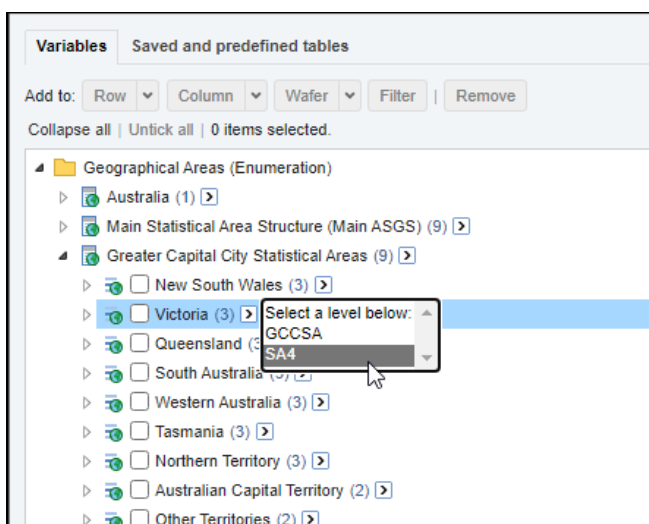


Beside each variable in the left panel of the Table view you can select the > button to see how many levels a variable includes. Selecting one of items in the Select a level below list selects all categories at that level. All categories for single level variables can also be selected this way.

Click on the > next to the variable name. Selecting SA4 here selects all SA4s in all States.

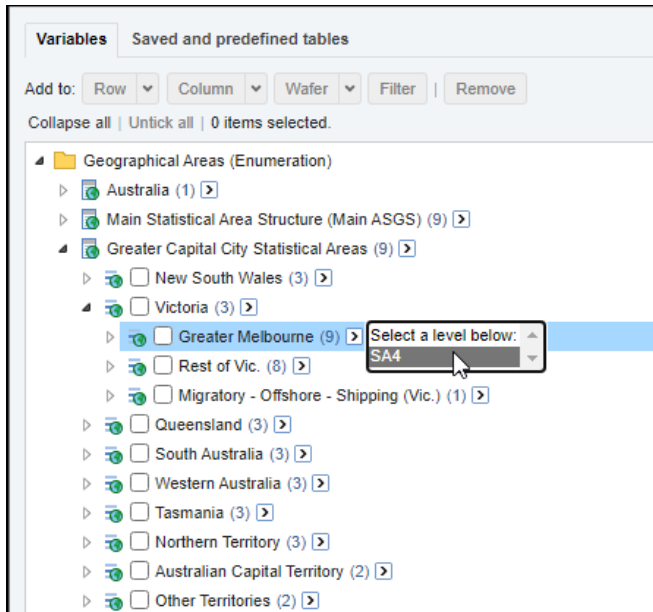


Click on the > next to one of the State level categories. Selecting SA4 here selects all SA4s in that State only.



Click on the > next to one of the Greater Capital City Statistical Area (GCCSA) level categories. Selecting SA4 here selects all

SA4s in that GCCSA only.



Changing the level of a hierarchical variable in a table

For hierarchical variables, drill down within the table. By clicking on the underlined category name, the next level down of the variable displays. For example, clicking on New South Wales displays the next level down: Greater Sydney, Rest of NSW, etc.

The screenshot shows the 'Table view' of a table in TableBuilder. The table has columns for 'STATE (UR)', 'Persons Place of Usual Residence', and 'Persons'. The 'STATE (UR)' column is expanded, showing a list of states and territories: New South Wales, Victoria, Queensland, South Australia, Western Australia, Tasmania, Northern Territory, and Australian Capital Territory. The 'Persons' column is also expanded, showing a list of persons.

STATE (UR)	Persons Place of Usual Residence	Persons
New South Wales	-	-
Victoria	-	-
Queensland	-	-
South Australia	-	-
Western Australia	-	-
Tasmania	-	-
Northern Territory	-	-
Australian Capital Territory	-	-
Other Territories	-	-
Total	-	-

Display of next level down for New South Wales.

Queue table
Clear table
Save table
Options
Remove

GCCSA (UR)

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers:

Cell count 5 (1 columns x 5 rows x 1 wafers) total.

<< GCCSA (UR) ⓘ	
Greater Sydney	-
Rest of NSW	-
No Usual Address (NSW)	-
Migratory - Offshore - Shipping (NSW)	-
Total	-

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
Queue table to view table annotations

Collapse back up to the State level by clicking on the double arrow. This displays all categories for the higher level.

Queue table
Clear table
Save table
Options
Remove

GCCSA (UR)

Filters:
Default summation ⓘ : Persons Place of Usual Residence

Wafers:

Cell count 5 (1 columns x 5 rows x 1 wafers) total.

<< GCCSA (UR) ⓘ	
Greater Sydney	-
Rest of NSW	-
No Usual Address (NSW)	-
Migratory - Offshore - Shipping (NSW)	-
Total	-

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
Queue table to view table annotations

Add a variable to wafers

You can also add variables to the third dimension of a table - wafers.

- Using our earlier example table, add the Country of Birth of Person variable to the wafer. Click and drag Country of Birth towards the table. Drop the variable onto Wafer. Alternatively, after selecting the categories using the > you can use the Add to wafer button at the top. A separate wafer (layer) for each country is added to the table.

Data source: 2016 Census - Cultural Diversity | Table: Age x Marital Status

Variables Saved and predefined tables

Add to: Row Column **Wafer** Filter Remove

Collapse all | Untick all | 0 items selected.

- Geographical Areas (Usual Residence)
 - Selected Person Characteristics
 - AGEP Age (116)
 - AGE5P Age in Five Year Groups (21)
 - AGE10P Age in Ten Year Groups (11)**
 - ANC1P Ancestry 1st Response (11)
 - ANC2P Ancestry
 - ASSNP Core Acti
 - BPFP Country of
 - BPLP Country of**
 - BPMP Country of
 - BPPP Country of
 - CHCAREP Unpai
 - CITP Australian Citiz
 - CTPP Child Type (7)
 - ENGLP Proficiency in Spoken English/Language (7)
 - ENGP Proficiency in Spoken English (7)
 - IFAGEP Imputation Flag for Age (2)

Column

Row

Wafer

BPLP Country of Birth of Person

Queue table Clear table Save table Options Remove

AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status

Filters:
Default summation : Persons Place of Usual Residence

Wafers:

Cell count 35 (7 columns x 5 rows x 1 wafers) total.

MSTP Registered Marital Status	Never married	Widowed	Divorced
AGE10P - Age in Ten Year Groups			
20-29 years	-	-	
30-39 years	-	-	
40-49 years	-	-	
50-59 years	-	-	
Total	-	-	

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
Queue table to view table annotations

2. The wafer displays above the table. The wafer for all people born in Oceania is displayed. View the list of all categories in wafers using the Wafers drop-down menu.

Queue table Clear table Save table Options Remove

BPLP - 1 Digit Level by AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status

Filters:
Default summation : Persons Place of Usual Residence

Wafers: Oceania and Antarctica

- Oceania and Antarctica
- North-West Europe
- Southern and Eastern Europe
- North Africa and the Middle East
- South-East Asia
- North-East Asia
- Southern and Central Asia
- Americas
- Sub-Saharan Africa
- Supplementary codes
- Not stated
- Total


Cell count 35 (7 columns x 5 rows x 1 wafers) total.

MSTP Registered Marital Status	Never married	Widowed	Divorced	Separated	Married
AGE10P - Age in Ten Year Groups					
20-29 years	-	-	-	-	-
30-39 years	-	-	-	-	-
40-49 years	-	-	-	-	-
50-59 years	-	-	-	-	-
Total	-	-	-	-	-

Data source : Census of Population and Housing, 2016, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
Queue table to view table annotations

3. Wafers are displayed differently in the downloaded table depending on format.

Excel 2007 displays wafers as individual sheets of the workbook.



Australian Bureau of Statistics

Australian Bureau of Statistics

2016 Census - Cultural Diversity

BPLP - 1 Digit Level by AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status

Counting: Persons Place of Usual Residence

Filters:

Default Summatio

Persons Place of Usual Residence

Oceania and Antarctica

MSTP Registered Marital Status

Never married	Widowed	Divorced	Separated	Married	Not
AGE10P - Age in Ten Year					
1883559	1827	10706	19478	272551	
843451	4788	82700	71623	1006234	
535884	15266	230395	113239	1223790	
317072	42043	324156	102202	1160372	
3579972	63927	647961	306548	3662951	

Dataset: Census of Population and Housing, 2016, TableBuilder

INFO

Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be plac

0. Oceania and Antarctica

1. North-West Europe

2. Southern and Eastern Europe

CSV displays wafers consecutively on the first sheet.

	A	B	C	D	E	F	G	H
1	Australian Bureau of Statistics							
2								
3	2016 Census - Cultural Diversity							
4	BPLP - 1 Digit Level by AGE10P - Age in Ten Year Groups by MSTP Registered M							
5	Counting: Persons Place of Usual Residence							
6								
7	Filters:							
8	Default S Persons Place of Usual Residence							
9								
10	Oceania and Antarctica							
11	MSTP Reg	Never m	Widowe	Divorced	Separate	Married	Not appl	Total
12	AGE10P - Age in Ten Year Groups							
13	20-29 yea	1883559	1827	10706	19478	272551	0	2188124
14	30-39 yea	843451	4788	82700	71623	1006234	0	2008805
15	40-49 yea	535884	15266	230395	113239	1223790	0	2118577
16	50-59 yea	317072	42043	324156	102202	1160372	0	1945843
17	Total	3579972	63927	647961	306548	3662951	0	8261349
18								
19								
20	North-West Europe							
21	MSTP Reg	Never m	Widowe	Divorced	Separate	Married	Not appl	Total
22	AGE10P - Age in Ten Year Groups							
23	20-29 yea	83613	79	479	570	11225	0	95964
24	30-39 yea	60592	238	4940	3449	76016	0	145239
25	40-49 yea	37802	1081	20244	9446	135183	0	203759
26	50-59 yea	32402	4926	45408	13708	171784	0	268229
27	Total	214415	6321	71074	27169	394205	0	713188
28								
29								
30	Southern and Eastern Europe							
31	MSTP Reg	Never m	Widowe	Divorced	Separate	Married	Not appl	Total
32	AGE10P - Age in Ten Year Groups							
33	20-29 yea	25513	48	291	289	7292	0	33433
34	30-39 yea	20062	135	2830	1734	34260	0	59016
35	40-49 yea	8557	599	7166	3066	41929	0	61320
36	50-59 yea	7648	2712	15361	5240	66596	0	97556
37	Total	61785	3491	25641	10333	150066	0	251324
38								

4. To remove a variable from the wafer, click on the X next to the wafer variable or drag the wafer variable to the Remove icon.

Queue table

Clear table

Save table

Options

Remove

BPLP - 1 Digit Level by AGE10P - Age in Ten Year Groups by MSTP Registered Marital Status

Filters:

Default summation ⓘ : Persons Place of Usual Residence

Wafers: Oceania and Antarctica

BPLP - 1 Digit Level ⓘ

Cell count 420 (7 columns x 5 rows x 12 wafers) total.

Add multiple variables to rows, columns or wafers

You can add multiple variables to a table so that the variables are nested within rows, columns or wafers. Nesting is where multiple variables are on the same axis, such as Age and Marital status in the Row axis. The maximum number of variables that can be nested on an axis is 10 variables. This is also the maximum number of variables that can be included in a table. For performance reasons it is better to have less than 10 variables in your table, particularly for large classifications or datasets.

Once you have created your table, you can drag variables to change the order of nesting within a row, column or wafer. You can also drag variables between the rows, columns and wafers to rearrange your table.

To nest variables in a table, add variables one at a time to the row, column or wafer. Variables can be added using the drag and drop method or the Add to Row, Column or Wafer buttons.

1. Select Age categories between 15 and 29 years and Add to row.
2. Then select Indigenous Status, and Add to row.
3. Add Sex to column.
4. The variables Age and Indigenous Status display as nested variables.

Queue table

Clear table

Save table

Options

Remove

AGEP Age and INGP Indigenous Status by SEXP Sex

Filters:

Default summation ⓘ : Persons Place of Usual Residence

Wafers:

Cell count 288 (3 columns x 96 rows x 1 wafers) total, 240 (3 columns x 80 rows x 1 wafers) displayed.

		SEXP Sex ⓘ	Male	Female	Total
AGEP Age ⓘ		INGP Indigenous Status ⓘ			
15	Non-Indigenous		-	-	-
	Aboriginal		-	-	-
	Torres Strait Islander		-	-	-
	Both Aboriginal and Torres Strait Islander		-	-	-
	Not stated		-	-	-
16	Non-Indigenous		-	-	-
	Aboriginal		-	-	-
	Torres Strait Islander		-	-	-
	Both Aboriginal and Torres Strait Islander		-	-	-
	Not stated		-	-	-
17	Non-Indigenous		-	-	-
	Aboriginal		-	-	-
	Torres Strait Islander		-	-	-


Add and remove a filter

When filters are applied to a table, only records that match the filters are included in the results. Filters are an alternative to selecting and including specific categories in the table, and can easily be removed to show all categories again.

1. The following table shows Labour Force Status (LFSP) by State with no filters applied.

LFSP Labour Force Status by STATE (UR)							
Filters:							
Default summation ⓘ : Persons Place of Usual Residence							
Wafers:							
Cell count 90 (10 columns x 9 rows x 1 wafers) total.							
STATE (UR) ⓘ :	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory
LFSP Labour Force Status ⓘ :							
Employed, worked full-time	-	-	-	-	-	-	-
Employed, worked part-time	-	-	-	-	-	-	-
Employed, away from work	-	-	-	-	-	-	-
Unemployed, looking for full-time work	-	-	-	-	-	-	-
Unemployed, looking for part-time work	-	-	-	-	-	-	-
Not in the labour force	-	-	-	-	-	-	-
Not stated	-	-	-	-	-	-	-
Not applicable	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-
Data source : Census of Population and Housing, 2016, TableBuilder							
Retrieve data to view table annotations							

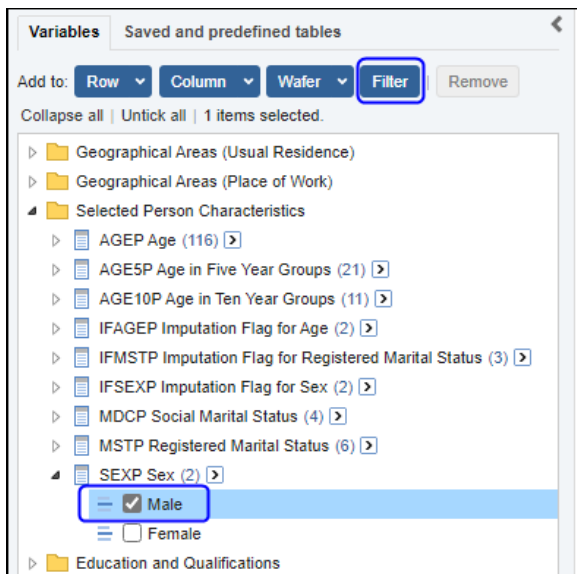
Excel 2007 table output with no filter applied

	A	B	C	D	E	F	G	
1		Australian Bureau of Statistics						
2	2016 Census - Counting Persons, Place of Usual Residence (MB)							
3	LFSP Labour Force Status by STATE (UR)							
4	Counting: Persons Place of Usual Residence							
5								
6	Filters:							
7	Default Summation: Persons Place of Usual Residence							
8								
9	STATE (UR)		New South Wales	Victoria	Queensland	South Australia	Western Australia	T
10	LFSP Labour Force Status							
11	Employed, worked full-time		2134527	1670556	1333192	435113	715288	
12	Employed, worked part-time		1071151	920875	691752	270416	376588	
13	Employed, away from		174659	144694	111512	40584	65860	
14	Unemployed, looking for full-time work		123986	103129	105533	35453	59491	
15	Unemployed, looking for part-time work		101565	90340	70127	25036	38474	
16	Not in the labour force		2088242	1610131	1206041	501989	595453	
17	Not stated		399769	305978	272339	75066	146574	
18	Not applicable		1386336	1080917	912699	293005	476683	
19	Total		7480230	5926624	4703192	1676653	2474414	
20	Dataset: Census of Population and Housing, 2016, TableBuilder							
21								
22	INFO Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be plac							
23								
24								
25	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright							
26	ABS data licensed under Creative Commons, see abs.gov.au/ccby							
27								

CSV table output with no filter applied

	A	B	C	D	E	F	G	H	I	J	K
1	Australian Bureau of Statistics										
2											
3	2016 Census - Counting Persons, Place of Usual Residence (MB)										
4	LFSP Labour Force Status by STATE (UR)										
5	Counting: Persons Place of Usual Residence										
6											
7	Filters:										
8	Default: Persons Place of Usual Residence										
9											
10	STATE (UI)	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia (Total)	Other Territories	Total
11	LFSP Labour Force Status										
12	Employed	2134527	1670556	1333192	435113	715288	121820	74107	137059	1409	6623061
13	Employed	1071151	920875	691752	270416	376588	81600	21493	57058	568	3491506
14	Employed	174659	144694	111512	40584	65860	13162	7109	11507	189	569274
15	Unemployed	123986	103129	105533	35453	59491	9613	5517	4893	37	447655
16	Unemployed	101565	90340	70127	25036	38474	6750	2171	5317	24	339803
17	Not in the labour force	2088242	1610131	1206041	501989	595453	160044	46009	88578	1108	6297598
18	Not stated	399769	305978	272339	75066	146574	26756	22960	18507	433	1268388
19	Not applicable	1386336	1080917	912699	293005	476683	90205	49474	74479	814	4364610
20	Total	7480230	5926624	4703192	1676653	2474414	509961	228838	397393	4583	2.3E+07
21											
22	Dataset: Census of Population and Housing, 2016, TableBuilder										
23											
24	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No									
25											
26											
27	Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright										
28	ABS data licensed under Creative Commons, see abs.gov.au/ccby										
29											


2. Select a single category and click Add to Filter.



3. TableBuilder adds the filter to the Filters list above the table.

LFSP Labour Force Status by STATE (UR) by SEXP Sex							
Filters:							
X SEXP Sex : Male							
Default summation : Persons Place of Usual Residence							
Wafers:							
Cell count 90 (10 columns x 9 rows x 1 wafers) total.							
STATE (UR) : New South Wales Victoria Queensland South Australia Western Australia Tasmania Northern Terr							
LFSP Labour Force Status :							
Employed, worked full-time	-	-	-	-	-	-	-
Employed, worked part-time	-	-	-	-	-	-	-
Employed, away from work	-	-	-	-	-	-	-
Unemployed, looking for full-time work	-	-	-	-	-	-	-
Unemployed, looking for part-time work	-	-	-	-	-	-	-
Not in the labour force	-	-	-	-	-	-	-
Not stated	-	-	-	-	-	-	-
Not applicable	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-
Data source : Census of Population and Housing, 2016, TableBuilder							
Retrieve data to view table annotations							

Excel 2007 output with filter for males

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
2	2016 Census - Counting Persons, Place of Usual Residence (MB)						
3	LFSP Labour Force Status by STATE (UR) by SEXP Sex						
4	Counting: Persons Place of Usual Residence						
5							
6	Filters:						
7	Default Summation Persons Place of Usual Residence						
8	SEXP Sex : Male						
9							
10	STATE (UR)	New South Wales	Victoria	Queensland	South Australia	Western Australia	
11	LFSP Labour Force Status						
12	Employed, worked full-time	1329577	1067764	831795	280609	464712	
13	Employed, worked part-time	367909	306087	225496	88408	121151	
14	Employed, away from	81561	66270	52684	18505	33731	
15	Unemployed, looking for full-time work	77135	64164	65992	23546	39208	
16	Unemployed, looking for part-time work	42169	36912	28205	10609	14852	
17	Not in the labour force	877233	662274	510545	216360	242780	
18	Not stated	198481	150036	138640	37533	77239	
19	Not applicable	711953	554575	468518	150420	244729	
20	Total	3686007	2908079	2321885	826001	1238418	
21	Dataset: Census of Population and Housing, 2016, TableBuilder						
22							
23	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be					
24							
25	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
26	ABS data licensed under Creative Commons, see abs.gov.au/ccby						
27							

CSV output with filter for males

	A	B	C	D	E	F	G	H	I	J	K
1	Australian Bureau of Statistics										
2											
3	2016 Census - Counting Persons, Place of Usual Residence (MB)										
4	LFSP Labour Force Status by STATE (UR) by SEXP Sex										
5	Counting: Persons Place of Usual Residence										
6											
7	Filters:										
8	Default S Persons Place of Usual Residence										
9	SEXP Sex Male										
10											
11	STATE (U)	New Sou	Victoria	Queensl	South Au	Western	Tasmani	Northern	Australia	Other Ter	Total
12	LFSP Labour Force Status										
13	Employee	1329577	1067764	831795	280609	464712	78376	43577	79628	889	4176931
14	Employee	367909	306087	225496	88408	121151	26058	7915	20436	206	1163658
15	Employee	81561	66270	52684	18505	33731	6056	3625	4661	95	267185
16	Unemplc	77135	64164	65992	23546	39208	6542	3297	2953	13	282848
17	Unemplc	42169	36912	28205	10609	14852	2951	948	2442	12	139100
18	Not in th	877233	662274	510545	216360	242780	70113	21065	37911	596	2638886
19	Not state	198481	150036	138640	37533	77239	13163	12679	9194	228	637202
20	Not appl	711953	554575	468518	150420	244729	46224	25464	38521	420	2240826
21	Total	3686007	2908079	2321885	826001	1238418	249476	118568	195743	2463	1.2E+07
22											
23	Dataset: Census of Population and Housing, 2016, TableBuilder										
24											
25	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No									
26											
27											
28	Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright										
29	ABS data licensed under Creative Commons, see abs.gov.au/ccby										
30											

4. Additional variables can be added to the filter. However, only one category can be added per variable. For example Sex - Male and Sex - Female cannot both be added as a filter at the same time, but you can add Marital status - Married.

5. The following table has two filters added. The table now only includes individuals who are both Male and Married.

LFSP Labour Force Status by STATE (UR) by SEXP Sex and MSTP Registered Marital Status							
Filters:							
X SEXP Sex : Male							
X MSTP Registered Marital Status : Married							
Default summation : Persons Place of Usual Residence							
Wafers:							
Cell count 90 (10 columns x 9 rows x 1 wafers) total.							
STATE (UR) :		New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania
LFSP Labour Force Status :							
Employed, worked full-time		-	-	-	-	-	-
Employed, worked part-time		-	-	-	-	-	-
Employed, away from work		-	-	-	-	-	-
Unemployed, looking for full-time work		-	-	-	-	-	-
Unemployed, looking for part-time work		-	-	-	-	-	-
Not in the labour force		-	-	-	-	-	-
Not stated		-	-	-	-	-	-
Not applicable		-	-	-	-	-	-
Total		-	-	-	-	-	-
Data source : Census of Population and Housing, 2016, TableBuilder							
Retrieve data to view table annotations							

Excel 2007 output with two filters applied

LFSP Labour Force Status by STATE (UR) by SEXP Sex and MSTP Registered Marital Status

Filters:
 X SEXP Sex : Male
 MSTP Registered Marital Status : Married
 Default summation : Persons Place of Usual Residence

Wafers:
 Cell count 90 (10 columns x 9 rows x 1 wafers) total.

STATE (UR) :	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory
LFSP Labour Force Status :							
Employed, worked full-time	-	-	-	-	-	-	-
Employed, worked part-time	-	-	-	-	-	-	-
Employed, away from work	-	-	-	-	-	-	-
Unemployed, looking for full-time work	-	-	-	-	-	-	-
Unemployed, looking for part-time work	-	-	-	-	-	-	-
Not in the labour force	-	-	-	-	-	-	-
Not stated	-	-	-	-	-	-	-
Not applicable	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-

Data source : Census of Population and Housing, 2016, TableBuilder
 Retrieve data to view table annotations

Cell counts, mesh blocks, sorting, totals and other table options

Cell counts, sorting, totals, labels, codes , zero suppression, displaying percentages and RSEs

Released 19/11/2021

Cell count

To see how large your table is, check the cell count above the table. This shows the number of rows, columns and wafers for all cells (total) and displayed cells. The displayed cell count may differ from the total cell count if row or column totals are not displayed. The largest table (including totals and wafers) that can be built in TableBuilder is 40 million cells.

Queue table	Clear table	Save table	Options	Remove

AGE5P - Age in Five Year Groups by STATE (UR) and SEXP Sex

Filters:
 Default summation : Persons Place of Usual Residence

Wafers:
 Cell count 660 (30 columns x 22 rows x 1 wafers) total, 440 (20 columns x 22 rows x 1 wafers) displayed.

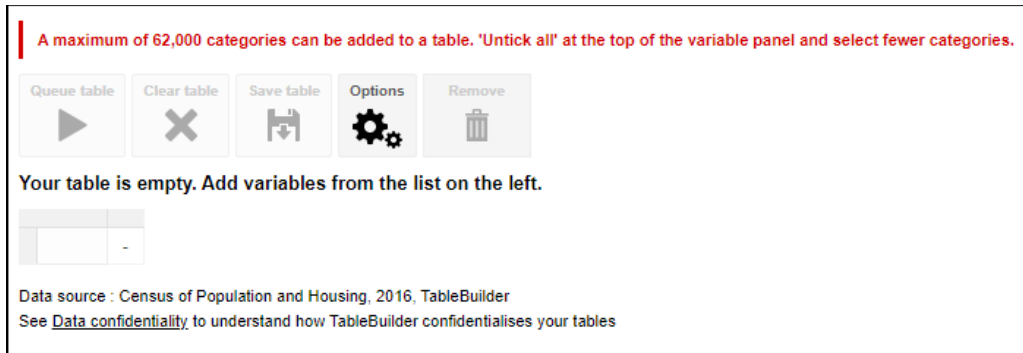
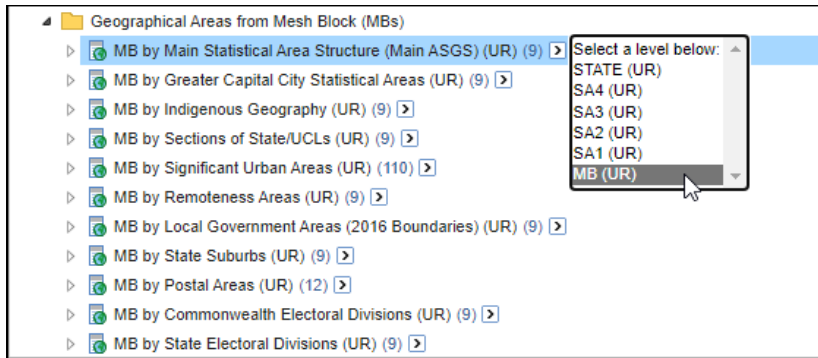
Using mesh blocks

Some Census TableBuilder Pro 2016 and 2021 databases include mesh block level detail, the smallest geographical unit used in TableBuilder. Mesh blocks enable you to build your own custom geographic areas. If you want to display a geography in a table that is not already provided in TableBuilder, you can use mesh blocks to accurately approximate a large range of other statistical regions. See the [Custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](#) section and [Census mesh block counts \(/census/guide-census-data/mesh-block-counts/2021\)](#) for help in customising your own geographies and using mesh blocks.

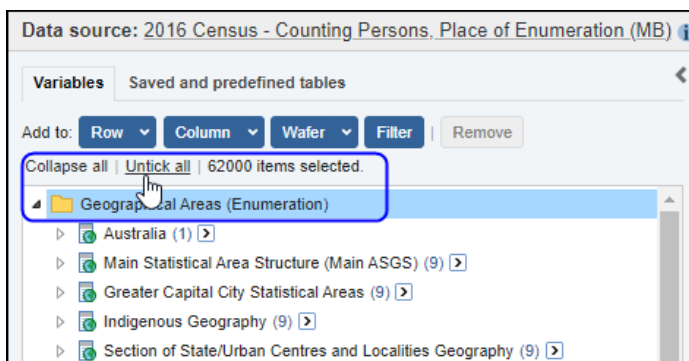
Mesh blocks are ideal for building custom geographic areas. However, you may also want to add mesh blocks directly to your table. TableBuilder has a limit of adding 62,000 categories from any one variable to a table. As there are more than 62,000 mesh blocks in each of Australia, New South Wales, Victoria and Queensland you need to select a smaller geographic area when using mesh blocks. Because of the very detailed information, you may need to build a number of tables if you want to include mesh blocks as a variable in your table.

1. If you try to add all mesh blocks to your table, an error message is displayed indicating 'A maximum of 62,000 categories

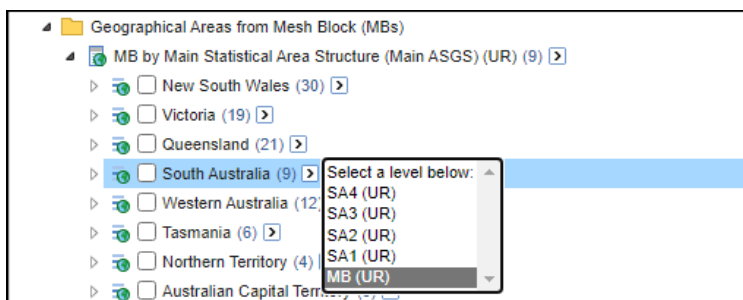
can be added to a table. 'Untick all' at the top of the variable panel and select fewer categories'.



2. The number of items you currently have selected is displayed at the top of the left panel. TableBuilder stops selecting categories when it reaches the 62,000 limit. Before continuing, clear your current selection by clicking on Untick All.



3. You can then select a smaller number of categories to build a table. This example shows all mesh blocks in South Australia being successfully selected.



Mesh blocks are restricted from cross-tabulation with certain other variables, see [Confidentiality \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error/\)](#) for more information.

Sort table rows

Rows can be sorted using the double arrow next to the variable names. Rows are sorted alphabetically by the variable labels.

If row categories are removed and then re-added to a table, they appear in the order they have been added, not their original order. Categories can be re-ordered by using the sort option. Row variables can be sorted either by their [category labels or codes \(#category-labels-and-codes\)](#).

Use the double arrows shown against the row variable label to sort based on the row labels.

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status			
Never married	-	-	-
Widowed	-	-	-
Divorced	-	-	-
Separated	-	-	-
Married	-	-	-
Not applicable	-	-	-
Total	-	-	-

Clicking the double arrow on row headings sorts based on the category names for that variable. You can toggle between:

- ascending order

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status			
Divorced	-	-	-
Married	-	-	-
Never married	-	-	-
Not applicable	-	-	-
Separated	-	-	-
Widowed	-	-	-
Total	-	-	-

- descending order

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status			
Widowed	-	-	-
Separated	-	-	-
Not applicable	-	-	-
Never married	-	-	-
Married	-	-	-
Divorced	-	-	-
Total	-	-	-

- default order

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status			
Never married	-	-	-
Widowed	-	-	-
Divorced	-	-	-
Separated	-	-	-
Married	-	-	-
Not applicable	-	-	-
Total	-	-	-

Show or hide totals in a table

Hide totals

TableBuilder can automatically add totals to tables. Click on the three vertical dots menu next to the variable name to show or hide the total for the variable.

For certain variables it may not make sense to add totals, in which case the Totals option does not appear.

If you remove totals for very large tables this can improve the time taken to retrieve the data. However, if you plan to use totals, it is better to use the totals generated by TableBuilder rather than summing the interior cells after downloading your table. See [Totals \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#:~:text=most%20TableBuilder%20datasets.,Totals,-In%20TableBuilder%2C%20totals\)](#) on the Confidentiality page.

Show totals

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status			
Never married	-	-	-
Widowed	-	-	-
Divorced	-	-	-
Separated	-	-	-
Married	-	-	-
Not applicable	-	-	-

Hide totals

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status			
Never married	-	-	-
Widowed	-	-	-
Divorced	-	-	-
Separated	-	-	-
Married	-	-	-
Not applicable	-	-	-
Total	-	-	-

Category labels and codes

By default, the category labels show the names of the categories (such as Divorced, Separated, Married for the variable Marital Status). By clicking the three vertical dots menu next to the variable name, you can choose to display the numeric category codes instead. This can be a useful option for large classifications or variables with long category labels, such as the Australian Statistical Geography Standard (ASGS).

Table displaying category labels

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status	✓ Total		
Never married			-
Widowed	-	-	-
Divorced	-	-	-
Separated	-	-	-
Married	-	-	-
Not applicable	-	-	-
Total	-	-	-

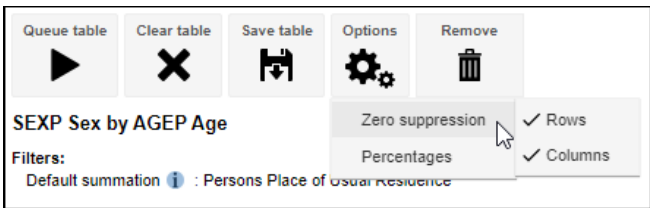
Table displaying numeric category codes instead of labels

SEXP Sex	Male	Female	Total
MSTP Registered Marital Status	✓ Total		
1	✓ Codes	-	-
2	-	-	-
3	-	-	-
4	-	-	-
5	-	-	-
@	-	-	-
Total	-	-	-

Zero suppression

Zero suppression helps you reduce noise in tables to focus on the most relevant cells of the table. When zero suppression is enabled, TableBuilder automatically removes rows and columns that contain only zeros. This can be useful for large tables with many small and zero values, as it can reduce the size of the table significantly, making it easier to focus on the results.


To enable zero suppression, go to the Options menu at the top of the table and select from the Rows and/or Columns options.




If wafers are included in a table, then TableBuilder determines whether to suppress a row or column by looking at the entire cube, not just the currently visible wafer. A row or column is only suppressed if it contains only zeros on all of the wafers. This means that rows and columns with all zero values still appear in the table if a row or column only contains zeros on the current wafer, but has values on at least one of the other wafers.

For example, this table can be reduced by enabling zero suppression for rows. TableBuilder automatically removes all the rows that have only zeros in them.

Zero suppression turned off

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
2	2016 Census - Cultural Diversity						
3	BPLP - 4 Digit Level by SEXP Sex						
4	Counting: Persons Place of Usual Residence						
5							
6	Filters:						
7	Default Summation Persons Place of Usual Residence						
8							
9	SEXP Sex		Male	Female	Total		
10		BPLP - 4 Digit Level					
11		Oceania and Antarctica, nfd	10	13	31		
12		Australia (includes External Territories), nfd	0	0	0		
13		Australia	7735004	7879831	15614834		
14		Norfolk Island	356	337	699		
15		Australian External Territories, nec	0	0	0		
16		New Zealand	261360	257101	518462		
17		Melanesia, nfd	0	0	0		
18		New Caledonia	572	718	1292		
19		Papua New Guinea	12765	16036	28803		
20		Solomon Islands	852	1132	1987		
21		Vanuatu	546	607	1155		
22		Micronesia, nfd	17	19	29		
23		Guam	48	53	101		
24		Kiribati	174	329	505		
25		Marshall Islands	8	19	33		

Zero suppression turned on

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
2	2016 Census - Cultural Diversity						
3	BPLP - 4 Digit Level by SEXP Sex						
4	Counting: Persons Place of Usual Residence						
5							
6	Filters:						
7	Default Summation Persons Place of Usual Residence						
8							
9	SEXP Sex		Male	Female	Total		
10		BPLP - 4 Digit Level					
11		Oceania and Antarctica, nfd	10	13	31		
12		Australia	7735004	7879831	15614834		
13		Norfolk Island	356	337	699		
14		New Zealand	261360	257101	518462		
15		New Caledonia	572	718	1292		
16		Papua New Guinea	12765	16036	28803		
17		Solomon Islands	852	1132	1987		
18		Vanuatu	546	607	1155		
19		Micronesia, nfd	17	19	29		
20		Guam	48	53	101		
21		Kiribati	174	329	505		
22		Marshall Islands	8	19	33		

Percentages

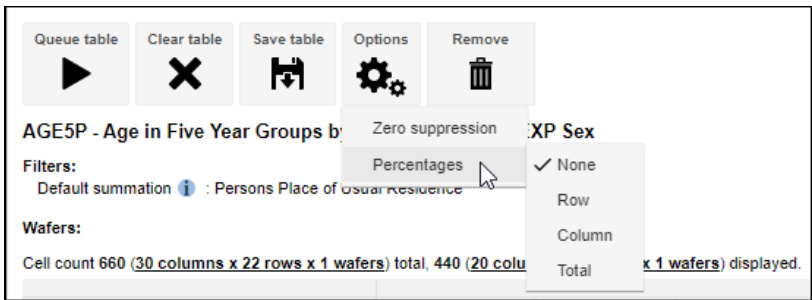
Use the Option menu above the table to change the counts in the table to percentages. The percentages option can be set to show percentages for:

- rows
- columns
- totals
- no percentages (none)

Percentages are calculated differently based on the option selected.


Percentages are not supported when opening certain predefined tables that contain grand totals.

When downloading tables containing percentages, the percentage symbol is only displayed in Excel format downloads. Other formats such as CSV include the percentage value but do not show the percent symbol (%) after the value.




Row percentages

Replaces the values in the table with a percentage of the total in each row.

	A	B	C	D	E	F	G	H
1	 Australian Bureau of Statistics							
2	2016 Census - Cultural Diversity							
3	AGE5P - Age in Five Year Groups by STATE (UR) and SEX Sex							
4	Counting: Persons Place of Usual Residence							
5								
6	Filters:							
7	Default Summation Persons Place of Usual Residence							
8	Percentage: Row							
9								
10	STATE (UR)	New South Wales		Victoria		Queensland		
11	SEXP Sex	Male	Female	Male	Female	Male	Female	
12	AGE5P - Age in Five Year Groups							
13	0-4 years	16.3067951%	15.4475547%	13.011629%	12.3311865%	10.3791554%	9.860102%	
14	5-9 years	16.3185366%	15.5043733%	12.5827956%	11.9494465%	10.8348135%	10.270476%	
15	10-14 years	16.3100573%	15.3972947%	12.5185104%	11.8921805%	10.9992435%	10.4075546%	
16	15-19 years	16.1865142%	15.3571652%	12.7918812%	12.2743647%	10.6353629%	10.206057%	
17	20-24 years	15.8594962%	15.3934477%	13.3859675%	13.0243364%	10.1661997%	10.0572508%	
18	25-29 years	15.6540947%	16.0144202%	13.0695192%	13.4391562%	9.499365%	9.7696392%	
19	30-34 years	15.6107418%	16.1035094%	12.8889583%	13.4005069%	9.3747322%	9.7554591%	
20	35-39 years	15.8392682%	16.1596279%	12.8013898%	13.0698183%	9.5692977%	9.9749501%	
21	40-44 years	15.5947084%	16.1860218%	12.3834758%	13.0003695%	9.9609349%	10.4340741%	
22	45-49 years	15.1505954%	15.9880515%	12.3162453%	13.1062135%	9.9606312%	10.4624473%	
23	50-54 years	15.6775333%	16.1915282%	12.1163252%	12.7183379%	9.9120741%	10.3515722%	
24	55-59 years	15.7304846%	16.5676405%	11.907347%	12.6822748%	9.8136666%	10.2779357%	
25	60-64 years	15.7215638%	16.6044328%	11.8823303%	12.7320302%	9.8164537%	10.2454979%	
26	65-69 years	15.8421496%	16.4931173%	11.7818434%	12.726083%	10.0648529%	10.305139%	
27	70-74 years	16.0075024%	16.9481196%	11.7984939%	12.781467%	10.0171789%	10.3055598%	
28	75-79 years	15.6327711%	17.6630747%	11.7848316%	13.5137537%	9.3192331%	9.9992186%	
29	80-84 years	14.9568994%	18.8733037%	11.4067962%	14.6262078%	8.225817%	9.9552709%	
30	85-89 years	13.6988164%	20.6770434%	10.5052094%	15.7961684%	7.0533174%	10.6006907%	
31	90-94 years	11.4823573%	23.1370817%	8.8541147%	17.3008163%	5.775011%	11.5122723%	
32	95-99 years	9.1836434%	25.2365931%	7.1228515%	18.9569268%	5.0178366%	12.6743123%	
33	100 years and over	5.3295933%	23.3099579%	7.2370266%	25.1332398%	4.8807854%	15.2033661%	
34	Total	15.7508938%	16.2132881%	12.4266838%	12.8987226%	9.9217837%	10.175682%	
35	Dataset: Census of Population and Housing, 2016, TableBuilder							
36								
37	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be placed on small cells.						
38								
39								
40	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright							
41	ABS data licensed under Creative Commons, see abs.gov.au/ccby							


Column percentages

Replaces the values in the table with a percentage of the total in each column.

	A	B	C	D	E	F	G
1	<div><div></div><div>Australian Bureau of Statistics</div></div>						
2	2016 Census - Cultural Diversity						
3	AGE5P - Age in Five Year Groups by STATE (UR) and SEXP Sex						
4	Counting: Persons Place of Usual Residence						
5							
6	Filters:						
7	Default Summation Persons Place of Usual Residence						
8	Percentage: Column						
9							
10	STATE (UR)	New South Wales		Victoria		Queensland	
11	SEXP Sex	Male	Female	Male	Female	Male	Female
12	AGE5P - Age in Five Year Groups						
13	0-4 years	6.4801559%	5.9636299%	6.5538797%	5.9838432%	6.5477834%	
14	5-9 years	6.6524562%	6.1402935%	6.5017147%	5.9484951%	7.0119321%	
15	10-14 years	6.182354%	5.6699197%	6.0145202%	5.5045063%	6.6187602%	
16	15-19 years	6.2427174%	5.7539423%	6.2532345%	5.7806659%	6.5116059%	
17	20-24 years	6.7413057%	6.3565965%	7.2119774%	6.7603431%	6.8600727%	
18	25-29 years	7.0694114%	7.0258783%	7.4810898%	7.4111534%	6.8102856%	
19	30-34 years	7.2160199%	7.2315071%	7.5516518%	7.5640416%	6.8793674%	
20	35-39 years	6.7107577%	6.6512291%	6.8745381%	6.7618339%	6.4362361%	
21	40-44 years	6.6984138%	6.7541226%	6.7419764%	6.818815%	6.7921969%	
22	45-49 years	6.500259%	6.6639327%	6.6977548%	6.8665201%	6.7842723%	
23	50-54 years	6.4800745%	6.5016594%	6.3477987%	6.419351%	6.5040258%	
24	55-59 years	6.2065265%	6.3504028%	5.9548589%	6.1102949%	6.1468591%	
25	60-64 years	5.5422033%	5.6864976%	5.3093124%	5.4807863%	5.4935968%	
26	65-69 years	5.1102182%	5.1684722%	4.8171319%	5.0127793%	5.1540451%	
27	70-74 years	3.8551473%	3.9652724%	3.6015872%	3.758864%	3.8298193%	
28	75-79 years	2.7680089%	3.0383088%	2.6448731%	2.9219044%	2.6195526%	
29	80-84 years	1.8687973%	2.2908817%	1.8064846%	2.2315718%	1.6316054%	
30	85-89 years	1.1482344%	1.6837207%	1.1160976%	1.6168054%	0.9385478%	
31	90-94 years	0.4373567%	0.8561452%	0.4274643%	0.8046923%	0.349199%	
32	95-99 years	0.0845088%	0.2256066%	0.0830789%	0.2130165%	0.0733025%	
33	100 years and over	0.0051546%	0.0219018%	0.0088718%	0.0296832%	0.0074939%	
34	Total	100.0%	100.0%	100.0%	100.0%	100.0%	
35	Dataset: Census of Population and Housing, 2016, Table Builder						
36							
37	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be placed on					
38							
39							
40	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
41	ABS data licensed under Creative Commons, see abs.gov.au/ccby						


Total percentages

Replaces the values with a percentage of the grand total. If you are using wafers then this shows the total percentage across all the wafers.

	A	B	C	D	E	F	G	
		Australian Bureau of Statistics						
1								
2	2016 Census - Cultural Diversity							
3	AGE5P - Age in Five Year Groups by STATE (UR) and SEXP Sex							
4	Counting: Persons Place of Usual Residence							
5								
6	Filters:							
7	Default Summation Persons Place of Usual Residence							
8	Percentage: Total							
9								
10	STATE (UR)	New South Wales		Victoria		Queensland		
11	SEXP Sex	Male	Female	Male	Female	Male	Female	
12	AGE5P - Age in Five Year Groups							
13	0-4 years	1.0206825%	0.9669005%	0.8144299%	0.7718393%	0.6496569%		
14	5-9 years	1.0478213%	0.9955435%	0.8079475%	0.7672799%	0.6957087%		
15	10-14 years	0.973776%	0.9192804%	0.7474054%	0.710011%	0.6566991%		
16	15-19 years	0.9832838%	0.9329032%	0.7770697%	0.7456321%	0.6460674%		
17	20-24 years	1.0618159%	1.0306133%	0.8962096%	0.8719979%	0.6806416%		
18	25-29 years	1.1134955%	1.1391259%	0.9296514%	0.9559441%	0.6757018%		
19	30-34 years	1.1365876%	1.1724651%	0.9384199%	0.9756647%	0.682556%		
20	35-39 years	1.0570043%	1.0783829%	0.8542771%	0.8721902%	0.6385894%		
21	40-44 years	1.05506%	1.0950654%	0.8378041%	0.87954%	0.6739071%		
22	45-49 years	1.0238489%	1.0804426%	0.8323088%	0.8856934%	0.6731208%		
23	50-54 years	1.0206697%	1.0541328%	0.7888209%	0.8280143%	0.6453154%		
24	55-59 years	0.9775834%	1.0296091%	0.7399915%	0.78815%	0.6098781%		
25	60-64 years	0.8729465%	0.9219682%	0.6597715%	0.7069514%	0.5450628%		
26	65-69 years	0.804905%	0.8379793%	0.5986097%	0.6465845%	0.5113732%		
27	70-74 years	0.6072202%	0.642901%	0.4475578%	0.4848454%	0.3799864%		
28	75-79 years	0.4359861%	0.4926098%	0.32867%	0.3768883%	0.2599063%		
29	80-84 years	0.2943523%	0.3714272%	0.2244861%	0.2878443%	0.1618844%		
30	85-89 years	0.1808572%	0.2729865%	0.1386939%	0.2085472%	0.0931207%		
31	90-94 years	0.0688876%	0.1388093%	0.0531196%	0.103795%	0.0346468%		
32	95-99 years	0.0133109%	0.0365782%	0.010324%	0.0274764%	0.0072729%		
33	100 years and over	0.0008119%	0.003551%	0.0011025%	0.0038288%	0.0007435%		
34	Total	15.7508938%	16.2132881%	12.4266838%	12.8987226%	9.9217837%		
35	Dataset: Census of Population and Housing, 2016, Table Builder							
36								
37	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be placed on						
38								
39								
40	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright							
41	ABS data licensed under Creative Commons, see abs.gov.au/ccby							

No percentages

Selecting none removes percentages from the table and reverts back to counts.


	A	B	C	D	E	F	G	
	<div> Australian Bureau of Statistics</div>							
1								
2	2016 Census - Cultural Diversity							
3	AGE5P - Age in Five Year Groups by STATE (UR) and SEXP Sex							
4	Counting: Persons Place of Usual Residence							
5								
6	Filters:							
7	Default SummationPersons Place of Usual Residence							
8								
9	STATE (UR)		New South Wales		Victoria		Queensland	
10	SEXP Sex		Male	Female	Male	Female	Male	F
11	AGE5P - Age in Five Year Groups							
12	0-4 years		238859	226273	190592	180625	152032	
13	5-9 years		245210	232976	189075	179558	162809	
14	10-14 years		227882	215129	174907	166156	153680	
15	15-19 years		230107	218317	181849	174492	151192	
16	20-24 years		248485	241183	209730	204064	159283	
17	25-29 years		260579	266577	217556	223709	158127	
18	30-34 years		265983	274379	219608	228324	159731	
19	35-39 years		247359	252362	199917	204109	149442	
20	40-44 years		246904	256266	196062	205829	157707	
21	45-49 years		239600	252844	194776	207269	157523	
22	50-54 years		238856	246687	184599	193771	151016	
23	55-59 years		228773	240948	173172	184442	142723	
24	60-64 years		204286	215758	154399	165440	127555	
25	65-69 years		188363	196103	140086	151313	119671	
26	70-74 years		142101	150451	104737	113463	88924	
27	75-79 years		102029	115280	76915	88199	60823	
28	80-84 years		68884	86921	52534	67361	37884	
29	85-89 years		42324	63884	32457	48804	21792	
30	90-94 years		16121	32484	12431	24290	8108	
31	95-99 years		3115	8560	2416	6430	1702	
32	100 years and over		190	831	258	896	174	
33	Total		3686007	3794216	2908079	3018545	2321885	
34	Dataset: Census of Population and Housing, 2016, TableBuilder							
35								
36	INFO Cells in this table have been randomly adjusted to avoid the release of confidential data. No reliance should be placed on							
37								
38								
39	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright							
40	ABS data licensed under Creative Commons, see abs.gov.au/ccby							

Relative standard error

Where relative standard error (RSE) data is available for a table, this data is included in the downloaded table. Some datasets, including Census datasets, do not have RSEs. RSEs are only applicable for sample and weighted data for survey-based datasets that are subject to sampling variability. For help interpreting RSEs, see [Relative standard error \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#relative-standard-error\)](https://abs.gov.au/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#relative-standard-error).

RSEs are presented differently depending on download format of table.

Excel: downloads include RSE data in a separate Excel worksheet (tab).

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
2	National Health Survey, 2017-18						
3	Standard drinks range by Sex of person						
4	Counting: Selected persons (3)						
5							
6	Filters:						
7	Default Summation	Selected persons (3) (#)					
8	RSE Values						
9							
10	Sex of person		Male	Female	Total		
11		Standard drinks range					
12		1 or less	3.92%	3.68%	2.80%		
13		More than 1 to 6	1.48%	1.92%	1.14%		
14		More than 6 to 11	4.15%	5.44%	3.32%		
15		More than 11 to 16	7.25%	16.88%	6.97%		
16		More than 16 to 21	11.23%	35.66%	11.02%		
17		More than 21 to 26	22.97%	36.51%	19.48%		
18		More than 26	22.58%	34.84%	20.50%		
19		Total	1.17%	1.63%	0.99%		
20	Dataset: National Health Survey, 2017-18, TableBuilder						
21							
22	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies may occur between					
23	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.					
24							
25	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
26	ABS data licensed under Creative Commons, see abs.gov.au/ccby						
60							
	Data Sheet 0		RSE Sheet 0				

CSV: downloads include a separate column for RSE data.

CSV: downloads include a separate column for RSE data.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Australian Bureau of Statistics												
2													
3	National Health Survey, 2017-18												
4	Standard drinks range by Sex of person												
5	Counting: Selected persons (3)												
6													
7	Filters:												
8	Default Selected persons (3) (#)												
9													
10	Sex of per	Male	Male - RSE	Male - An	Female	Female - F	Female - /	Total	Total - RSE	Total - Annotations			
11	Standard drinks range												
12	1 or less	854	3.92		1144	3.68		2001.4	2.8				
13	More thar	4816.3	1.48		3681.1	1.92		8494.1	1.14				
14	More thar	1341	4.15		545.8	5.44		1891.4	3.32				
15	More thar	330.6	7.25		94.5	16.88		427.4	6.97				
16	More thar	150.3	11.23		15.1	35.66 *		162.5	11.02				
17	More thar	42	22.97		14.3	36.51 *		56	19.48				
18	More thar	31.8	22.58		10.2	34.84 *		40.8	20.5				
19	Total	5798.3	1.17		4504.8	1.63		10303	0.99				
20													
21	Dataset: National Health Survey, 2017-18, TableBuilder												
22													
23	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies may occur between											
24	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.											
25													
26													
27	Symbol	Description											
28	#	(000's)											
29	*	Estimate has a relative standard error of 25% to 50% and should be used with caution											
30													
31													
32	Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright												
33	ABS data licensed under Creative Commons, see abs.gov.au/ccby												
34													

SDMX: RSE data is represented as an attribute value in the SDMX Generic Data observation element. This attribute is only added when the dataset is weighted and has RSE values in the associated data cube.

```
<Obs>
  <Time>...</Time>
  <ObsValue value="..." />
  <Attributes>
    <Value concept="RSE" value="0.437" />
  </Attributes>
  ...
</Obs>
```

Annotations in downloaded tables

Annotations provide additional information or notes about features or aspects relating to the data or dataset. If the table contains annotations they are included in the downloaded table.

Excel:

- Annotation symbols in the table cells on the first worksheet
- Annotation details in footnotes under the table

CSV:

- Annotation symbols in a separate column
- Annotation details immediately after the table data

SDMX:

- SDMX downloaded at the dataset level contains dataset level annotation descriptions and symbols in the <Annotations> ... </Annotations> section of the XML.

Example of annotations in a CSV download

	A	B	C	D	E	F	G	H
1	Australian Bureau of Statistics							
2								
3	National Health Survey, 2017-18							
4	Working arrangements by Sex of person							
5	Counting: Selected persons (3)							
6								
7	Filters:							
8	Default Summation	Selected persons (3) (#)						
9								
10	Sex of person	Male	Male - RSE	Male - Annotation	Female	Female - RSE	Female -	Total
11	Working arrangements							
12	Not applicable	5289.6	1.09		6278.9	1.06		11572.8
13	Contractor or sub-contractor	35.6	21.27		33.4	23.45		59.6
14	Own business or partnership	1314.6	3.35		784.9	4.44		2098.2
15	Commission only	13.4	37.71 *		6.8 np		**	20.2
16	Commission with retainer	3.3 np	**		0	0		2.2
17	In family business without payment	19.1	34.46 *		26.9	27.97 *		37.7
18	Payment in kind	0	0		0	0		0
19	Paid by the piece or item produced	5.3 np	**		2.7 np		**	8.1
20	Wage or salary earner	5247.7	1.02		5021.3	1.31		10271.4
21	Other	17.4	39 *		10 np		**	31.7
22	Total	11935.2	0.02		12165.3	0.02		24105.3
23								
24	np RSE data is concealed							
25								
26	Dataset: National Health Survey, 2017-18, TableBuilder							
27								
28	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies between totals and sub-totals may occur.						
29	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies between totals and sub-totals may occur.						
30								
31								
32	Symbol	Description						
33	#	(000's)						
34	*	Estimate has a relative standard error of 25% to 50% and should be used with caution						
35	**	Estimate has a relative standard error greater than 50% and is considered too unreliable for publication						
36								
37								
38	Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright							
39	ABS data licensed under Creative Commons, see abs.gov.au/ccby							
40								

Search and save

Using search and saving tables

Released 19/11/2021

Searching in TableBuilder

There are two ways to search within TableBuilder:

1. across all datasets and tables that you have access to: search box at the top right of all screens
2. within a selected dataset: search box at the bottom left of the dataset you have open

Search across all datasets and tables

Use the search box in the top right corner to search across all datasets and tables. The results are presented by type:

- dataset
- table (your saved tables and predefined tables)
- variable
- category

TableBuilder displays results from all the datasets you have access to.

The results return in a table format with the following columns:

- Item - indicates in which dataset or table the search term has been found

- Type - indicates the type of result: dataset, table, variable, category
- Location - indicates the path to locate the search term

Navigate your search results

Click on a result in the panel on the right to open that item.

To return to the search page and continue with the same search results, use the back button on your browser toolbar.

Use the Filter tick boxes on the left panel to narrow down the results:

- by dataset - display only specified folders or datasets
- by type - display only specified dataset, table, variable or category
- if no filters are ticked, results display for all datasets

The screenshot shows the 'TableBuilder Datasets' interface. At the top, the Australian Bureau of Statistics logo is on the left, followed by the 'TableBuilder Datasets' title. A search bar on the right contains the text 'education'. Below the header, the search results are displayed. On the left is a 'Filter' panel with a 'By dataset' section containing a list of datasets with checkboxes. On the right is a 'Results' table with columns 'Item', 'Type', and 'Location'.

Item	Type	Location
2006 Census - Education	Dataset	Data / 2006 Census of Population and Housing / Census TableBuilder Basic
2011 Census - Education and Qualifications	Dataset	Data / 2011 Census of Population and Housing / Census TableBuilder Basic
2016 Census - Employment, Income and Education	Dataset	Data / 2016 Census of Population and Housing / Census TableBuilder Basic
Childhood Education and Care, 2011	Dataset	Data / Childhood Education and Care
Childhood Education and Care, 2014	Dataset	Data / Childhood Education and Care
Childhood Education and Care, 2017	Dataset	Data / Childhood Education and Care
Education and Work, 2011	Dataset	Data / Education and Work
Education and Work, 2012	Dataset	Data / Education and Work
Education and Work, 2013	Dataset	Data / Education and Work
Education and Work, 2014	Dataset	Data / Education and Work

If your search term returns a large number of results, TableBuilder only displays the first 2,000 results per type (dataset, table, variable or category). In that case, the search may show no results for other datasets that also include the search term. Try refining your search to a more specific term so that your search includes all results.

TableBuilder

Datasets

Search results: 'town'

Filter

By dataset

- ☒ 2006 Census of Population and Housing (1222)
- ☐ 2011 Census of Population and Housing (686)
- ☐ 2016 Census of Population and Housing
- ☐ 2021 Census of Population and Housing
- ☐ Aboriginal and Torres Strait Islander Peoples
- ☐ Australian Census Longitudinal Data
- ☐ Australian Health Survey, Core Content - Risk Factors and Selected Health Conditions
- ☐ Businesses in Australia (BLADE)
- ☐ Childhood Education and Care
- ☐ Crime and Safety
- ☐ Cultural Activities
- ☐ Disability, Ageing and Carers (60)
- ☐ Education and Work (26)
- ☐ Employee Earnings and Hours
- ☐ General Social Data
- ☐ Income, Housing, Wealth and Expenditure
- ☐ Labour Force
- ☐ Migrants
- ☐ Motor Vehicles
- ☐ National Health Survey
- ☐ Nutrition and Physical Activity
- ☐ Patient Experiences
- ☐ Preschool Education
- ☐ Qualifications and Work
- ☐ Sport and Physical Recreation
- ☐ Work-Related Injuries (2)
- ☐ Work-Related Training and Adult Learning (4)

By type

- ☐ Dataset
- ☐ Table
- ☐ Variable
- ☒ Category (2000+)
- ☐ Synonym
- ☐ Metadata

Results

Item	Type	Location
...(S) excl. Warwick Town	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Indigenous Regions
...(S) excl. Warwick Town	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Enumeration / Indigenous Regions
...(S) excl. Warwick Town	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Families, Place of Enumeration / Indigenous Regions
...Bay (C) - Williamstown	Category	Data / 2011 Census of Population and Housing / Census TableBuilder Pro / 2011 Census - Counting Employed Persons, Place of Work / Local Government Areas (2011 Boundaries)
...Bay (C) - Williamstown	Category	Data / 2011 Census of Population and Housing / Census TableBuilder Pro / 2011 Census - Counting Employed Persons, Place of Work / Local Government Areas (2011 Boundaries) (UR)
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Statistical Regions
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Statistical Districts
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / PUR5P Place of Usual Residence Five Years Ago
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / PUR1P Place of Usual Residence One Year Ago
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Local Government Areas (POWP)
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Main ASGC (POWP)
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Main ASGC
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Usual Residence / Local Government Areas
...Bay (C) - Williamstown	Category	Data / 2006 Census of Population and Housing / Census TableBuilder Pro / 2006 Census - Counting Persons, Place of Enumeration / Statistical Regions

1 2 3 4 5 6 7 8 >>

Privacy Disclaimer Feedback

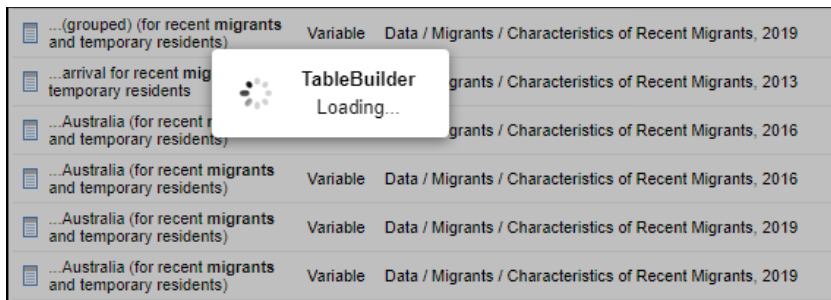
CC BY

© Copyright Powered by WingArc

All datasets search error

Some searches may get stuck on the "loading" screen and not return any results. To continue working in TableBuilder you need to:

1. Close the tab or window where you are working in TableBuilder using the x. You may not be able to use the log out option.
2. Clear your browser cache. For Edge and Chrome, use Ctrl+Alt+Del to open the clear cache options. Other browsers may have different ways to access the cache options.
3. Navigate back to the [log in page \(https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml\)](https://tablebuilder.abs.gov.au/webapi/jsf/login.xhtml) and enter your credentials.
4. Try a different search term, or use the other search option: search within a selected dataset (see below).



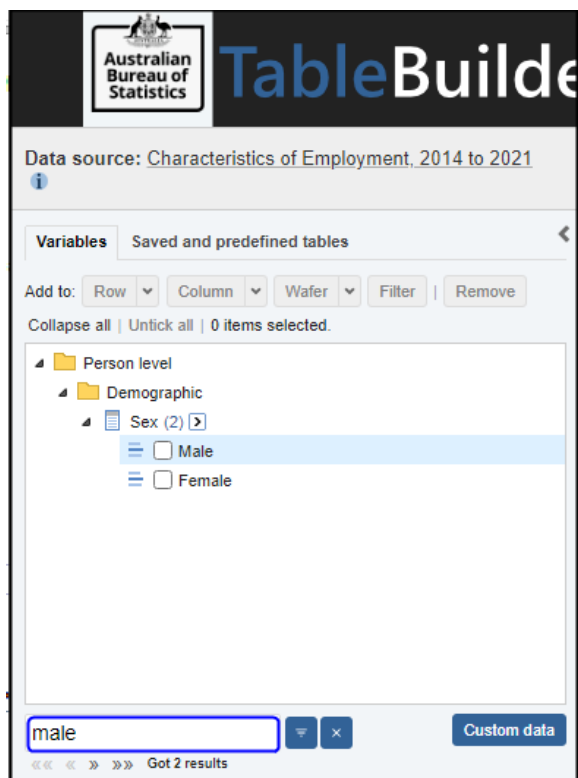
Search within a selected dataset

In addition to searching across all the available datasets, you can also search within the currently selected dataset. In the Table view, the Dataset search is at the bottom of the left panel.

Use the search box to display variables and categories that include your search term:

- Type your search term and either click Enter on your keyboard or click the triangle next to the search box
- Searching is not case sensitive
- You can search for a whole or partial word or for multiple words
- The number of results within the open dataset is shown below the search box
- The first result in the variable folder structure is displayed in the left panel
- Use the arrows below the search box to navigate through the results - the single arrows display the next or previous result, the double arrows display the first or final result
- Click the X button to clear your search and revert to the full list of available variables

Census datasets that include mesh block may take a long time to display search results. You may prefer to search using the 'all datasets' search function (top right) and use the filter to limit the results to the dataset you are interested in. Use the back button on your browser toolbar to return to the search results after viewing each selection.



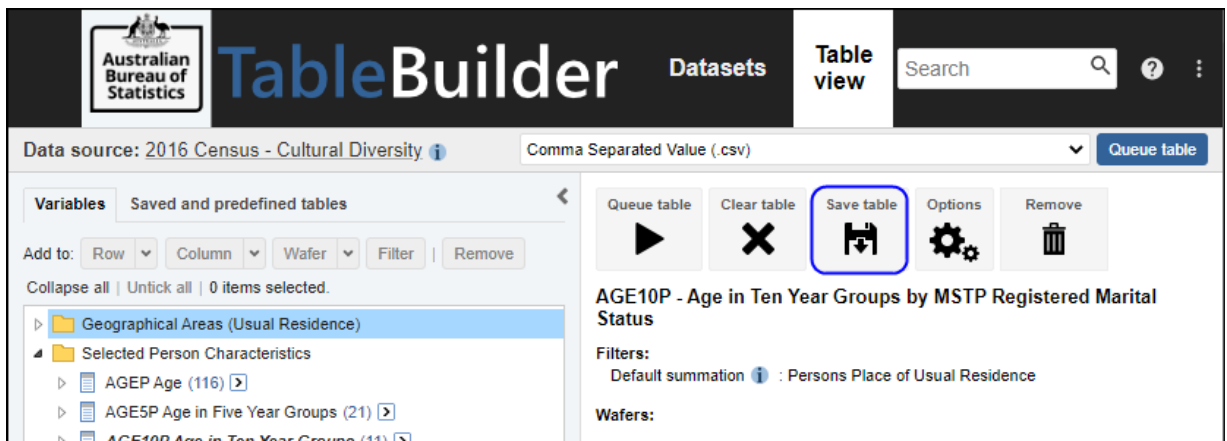
Save tables

Saving a table

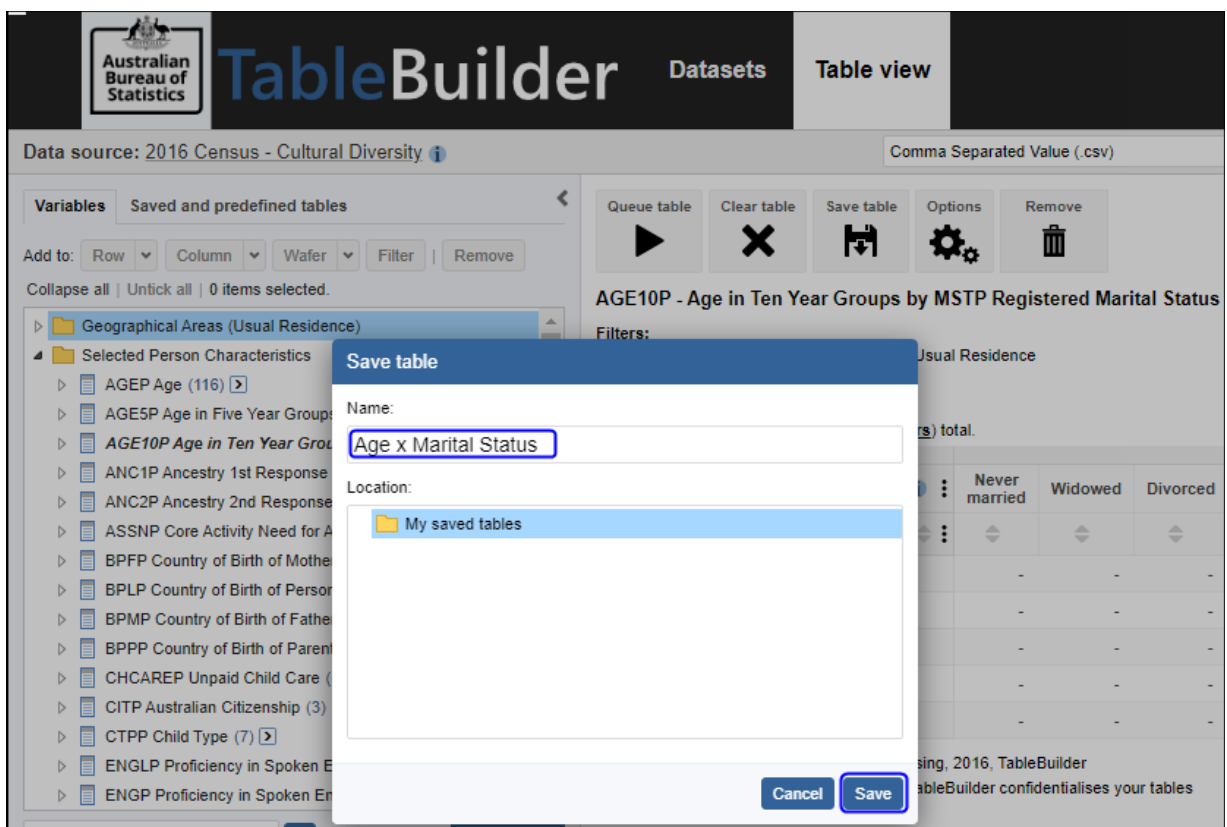
You can save the tables you create in TableBuilder:

- Once saved, the tables are available the next time you log in.
- Saved tables are only visible and accessible by the person who created the table.
- Queuing a table does not save the table structure, although you can access previously queued table again for up to 28 days.
- Saved tables remain in your profile until you delete them.

1. Once a table has been created, click on the Save table button above the table.



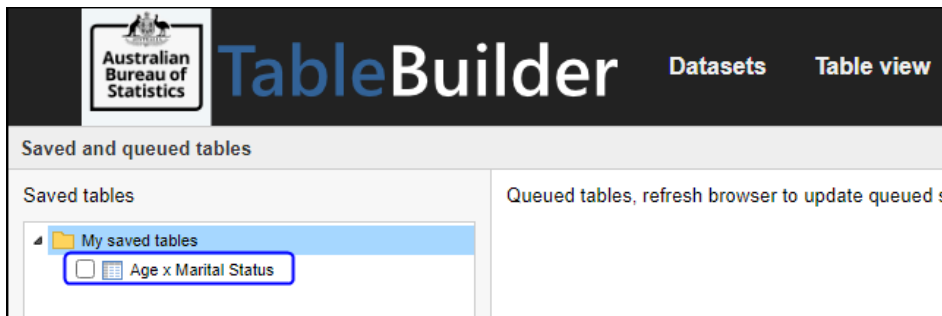
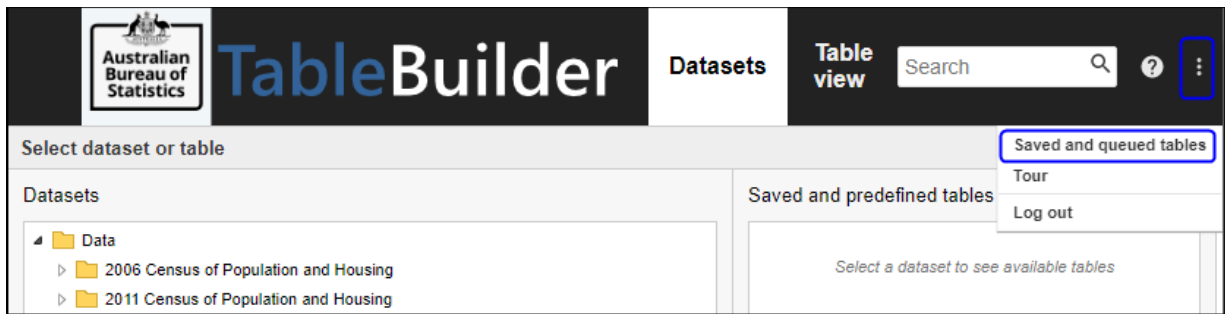
2. Enter a name for the table and click Save. The name of the table must be unique and no longer than 255 characters.



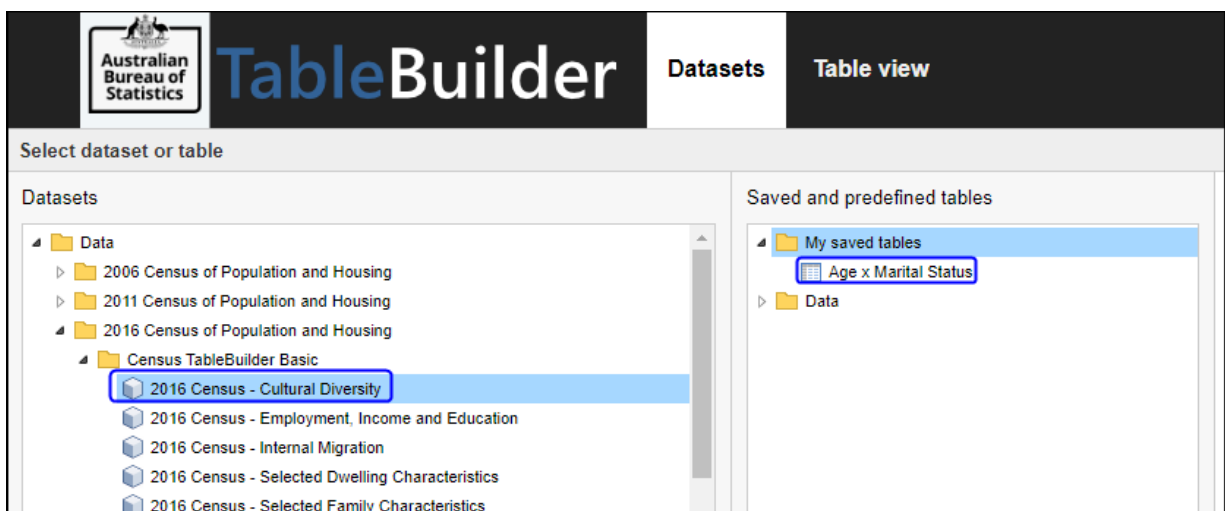
Open a saved table

There are three ways you can access your saved tables:

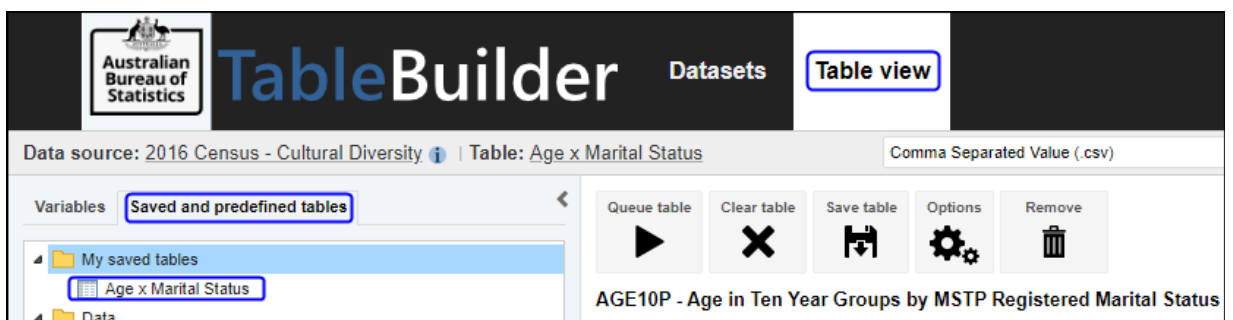
1. From any screen in TableBuilder, click on the Saved and queued tables option in the three vertical dots menu at the top right of the screen. This opens the main saved tables view where you can see all your saved tables across all datasets. From this view you can open any of the saved datasets, even if you have a different dataset open in the Table view.



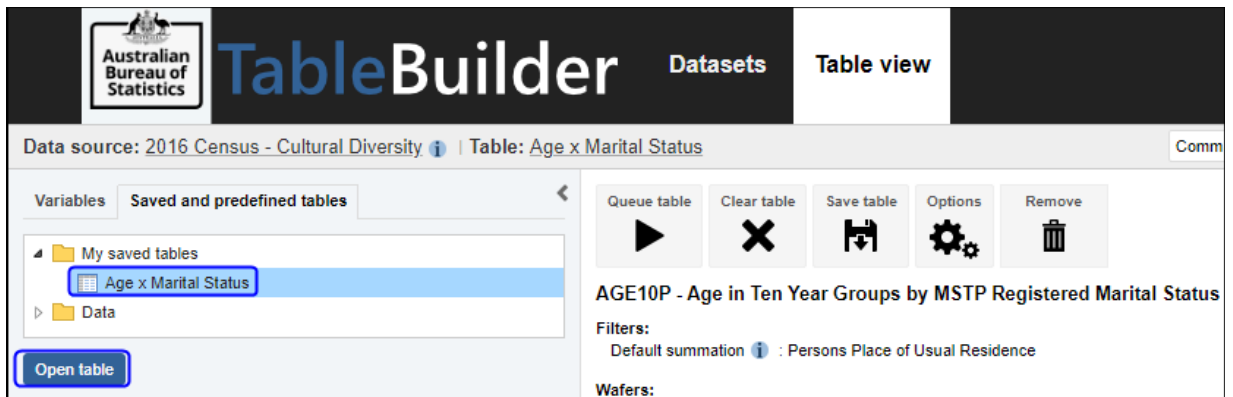
2. From the home page, select the dataset that you used to create your table so that all saved and predefined tables associated with the selected dataset appear in the middle panel of the home page. For this view, you can only see the saved tables for the selected dataset.



3. From the Table view page, click on the Saved and predefined tables tab at the top of the variables panel on the left. For this view, you can only see the saved tables for the open dataset.



4. Select the table and click Open or double-click the saved table.



5. If a table is currently open, any unsaved table content will be lost. The table you are opening will replace the currently active table.

Managing saved tables

The main view for Saved and queued tables is accessed via the three vertical dots menu in the top right corner. In the Saved tables panel on the left there are options to open, copy, delete and rename saved tables.

To open a saved table:

1. Select the tick box next to the table
2. Click Open

To create a copy of a saved table:

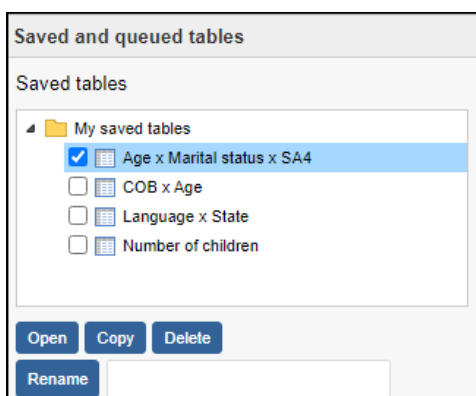
1. Select the tick box next to the table to be copied
2. Click Copy
3. A copy of the saved table is created called 'saved table' or 'saved table1' etc, which you may rename.

To delete a saved table:

1. Select the tick box next to the table to be deleted
2. You can select one or more tables
3. Click Delete
4. Click OK to confirm the table or tables to be deleted
5. Tables cannot be retrieved once they are deleted

To rename a saved table:

1. Select the tick box next to the table to be renamed
2. Enter a new name in the text box
3. Saved table names must be unique
4. Click Rename



Custom data

Create, edit, download and upload your own custom variable groupings

Released 19/11/2021

Create and save a custom data group within TableBuilder

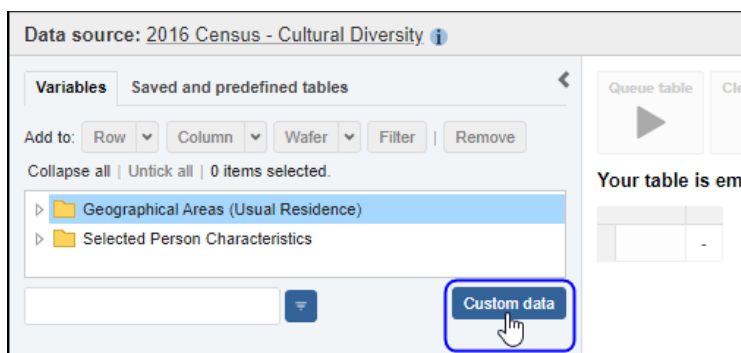
You can create your own grouping of categories within a variable. These are also known as 'recodes'. Custom groups can be saved in TableBuilder or downloaded and shared with other users for uploading. Custom data is useful if you want to create your own classification or load more recent electoral boundaries. Once you create your grouping, you can add it to a table like any other variable.

You can only combine categories from one variable or one level of a variable. You cannot create a new custom data group using:

- two or more original variables, such as Sex and Age - an error is displayed if you try to add more than one variable
- categories from two different levels of a hierarchical variable, such as NSW and Melbourne - TableBuilder allows you to build and save a multi-level hierarchical variable, but does not allow you to add it to a table

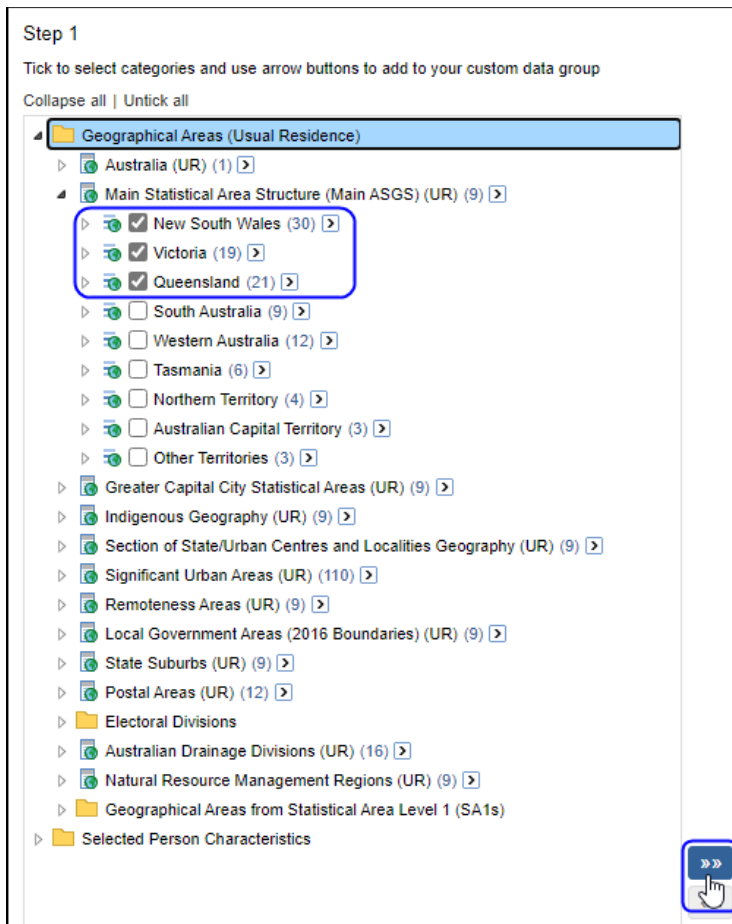
To start creating your custom data, click on the Custom data button at the bottom of the left panel in Table view.

1. This example uses the 2016 Census - Cultural Diversity dataset. Click on the Custom data button.



2. In the Step 1 panel, select the categories you want to group together, then click on the double arrows to add them to the panel on the right.

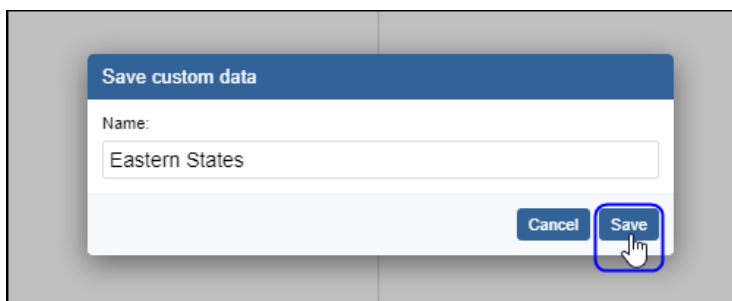
For example, to create a group of States using Main Statistical Area Structure (Main ASGS), select the States from the list and click »»



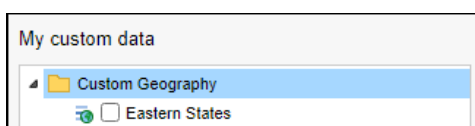
3. The selected categories now appear in the Step 2 panel on the right. After adding all the categories you need, click Save.



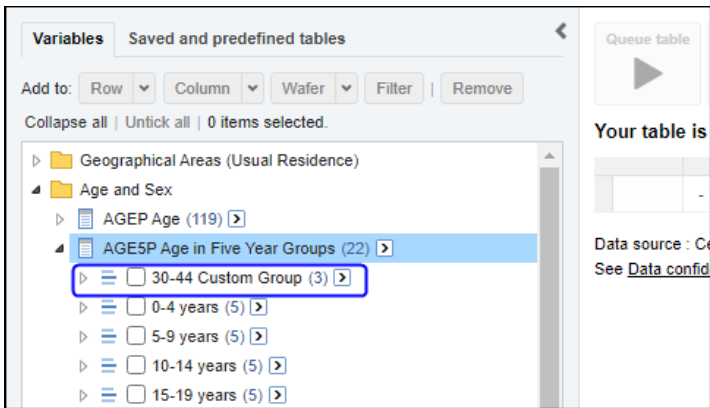
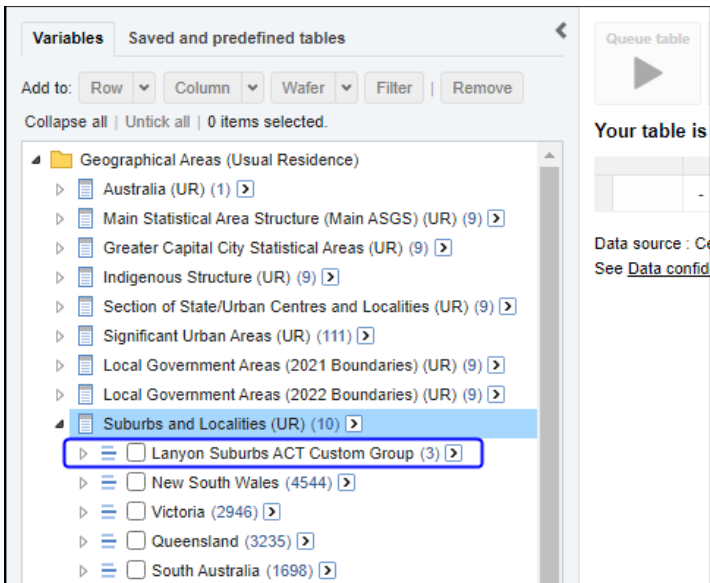
4. Enter a name for your new custom group and click Save.



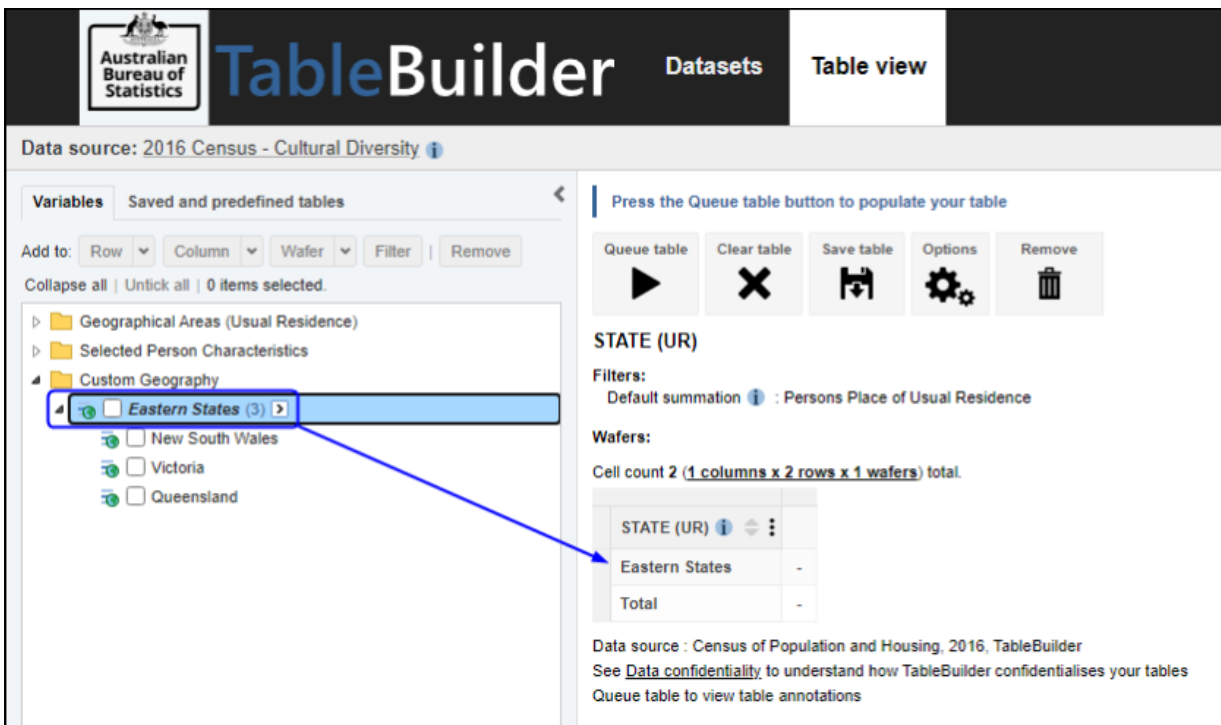
5. TableBuilder adds the new group to the My custom data list in the left panel of the Custom data view.



6. Your saved custom data group is now available in the left panel of the Table view. Custom variables are found with the original variable as pictured below.



7. The custom group can be added to a table.

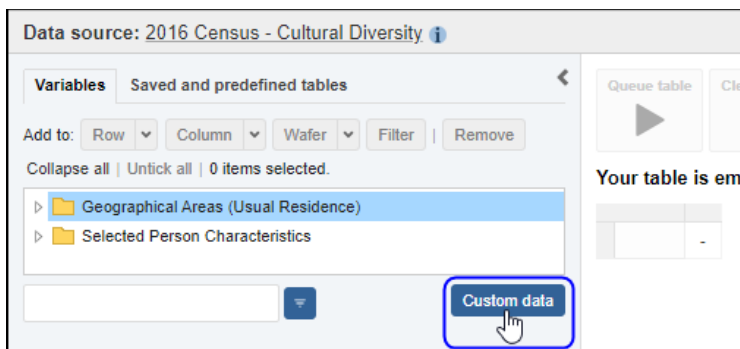


8. You can edit a group that you have created previously. However, if you have used your custom group in a saved table, the old version of the group will continue to display in the table. To update to the new version, you need to remove and re-add it to the table.

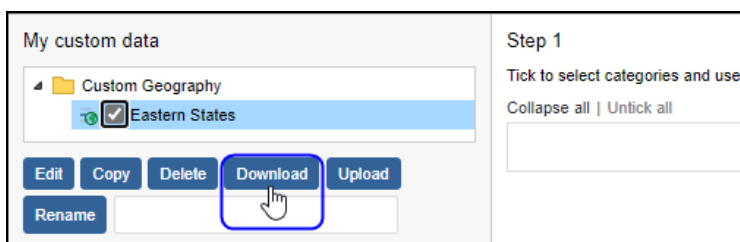
Download a saved custom data group

You can download a Custom data group you have built in TableBuilder to share with other users.

1. In Table view click on the Custom data button at the bottom of the left panel.



2. In the My custom data panel, select the tick box next to the group to be downloaded and click the Download button.



3. Depending on the [browser \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table~:text=time%20to%20download.-,Browsers,-may%20have%20different\)](#) , the file either saves to the default downloads folder, or a prompt appears to save or open the file. For example:

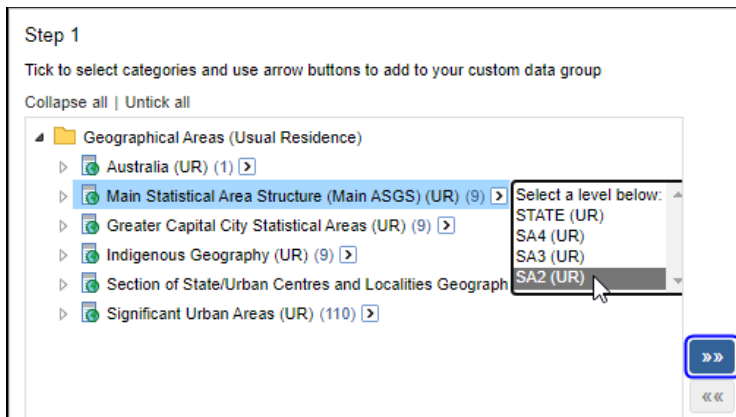


4. The custom group is downloaded in a Comma Separated Values (CSV) format, and you can edit it outside TableBuilder or share it with other users. They will need to have access to the same original dataset to be able to use your custom data.

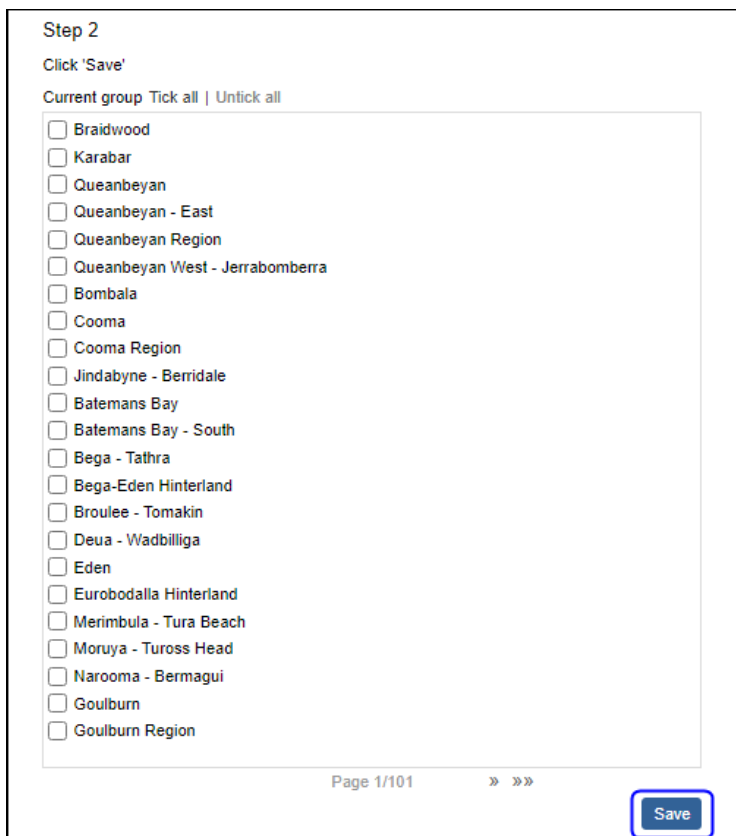
Download a classification to edit outside TableBuilder

You can download a whole classification to edit outside TableBuilder. This option is useful for very large classifications, such as geographies, or where you would like to use a TableBuilder classification to build your own classification outside TableBuilder

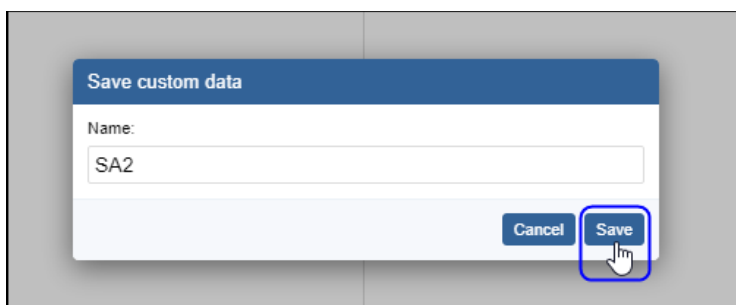
1. This example uses 2016 Census - Main Statistical Area Structure (Main ASGS) (UR). Click on the Custom data button on the left panel in Table view. Then select the whole classification you are interested in using the single arrow > at the end of the variable name. In this example, SA2 is selected. Click on the double arrow >> to move the selected classification to the second panel.



2. Once the classification has loaded, it may display over more than one page. You can view other pages using the page navigator below Step 2 panel. Click the Save button.



3. Choose a unique name for your classification.



4. In the My custom data panel on the left, select the tick box next to the group to be downloaded and click the Download button.



5. Depending on the browser, the file either saves to the default downloads folder, or a prompt appears to Save or Open the file. For example:



6. The custom group downloads in a Comma Separated Values (CSV) format, and can be edited outside TableBuilder.

Edit a downloaded custom data group outside TableBuilder

When a custom group is downloaded as a file in Comma Separated Values (CSV) format, the file can be opened and edited in a text editor or application such as Excel. It is important to be careful when editing a saved custom groups file in Excel, as it may make changes to the data that will prevent the file from opening in TableBuilder again. For example, Excel may strip leading zeros from codes in the file, such as ValueCode, which will not allow the data to be loaded back into TableBuilder. It is best to use a text editor instead, such as UltraEdit, to upload the new group.

A downloaded custom group opened in a text editor.

```
FactTableCode,FactTableName,FieldCode,FieldName,ValueSetCode,ValueSetName,ValueCode,ValueName,GroupName
Person Records,Persons Place of Usual Residence,2149537,Main Statistical Area Structure (Main ASGS) (UR),
Person Records,Persons Place of Usual Residence,2149537,Main Statistical Area Structure (Main ASGS) (UR),
Person Records,Persons Place of Usual Residence,2149537,Main Statistical Area Structure (Main ASGS) (UR),
Person Records,Persons Place of Usual Residence,2149537,Main Statistical Area Structure (Main ASGS) (UR),
Person Records,Persons Place of Usual Residence,2149537,Main Statistical Area Structure (Main ASGS) (UR)
```

A downloaded custom group opened in a spreadsheet.

	A	B	C	D	E	
1	FactTableCode	FactTableName	FieldCode	FieldName	ValueSetCode	ValueName
2	Person Records	Persons Place of Usual Residence	2149537	Main Statistical Area Structure (Main ASGS) (UR)	2149537_SA2	2149537_SA2
3	Person Records	Persons Place of Usual Residence	2149537	Main Statistical Area Structure (Main ASGS) (UR)	2149537_SA2	2149537_SA2
4	Person Records	Persons Place of Usual Residence	2149537	Main Statistical Area Structure (Main ASGS) (UR)	2149537_SA2	2149537_SA2
5	Person Records	Persons Place of Usual Residence	2149537	Main Statistical Area Structure (Main ASGS) (UR)	2149537_SA2	2149537_SA2
6	Person Records	Persons Place of Usual Residence	2149537	Main Statistical Area Structure (Main ASGS) (UR)	2149537_SA2	2149537_SA2
7	Person Records	Persons Place of Usual Residence	2149537	Main Statistical Area Structure (Main ASGS) (UR)	2149537_SA2	2149537_SA2

The first row contains the headings, and each subsequent row represents a single category in the custom variable group. The heading row must not be edited or the file cannot be uploaded to TableBuilder.

Rows can be added, edited or removed (except the header row) to change the composition of the group.

Upload a custom data group

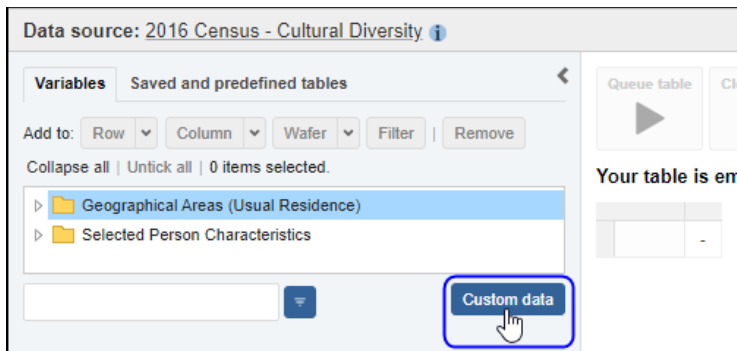
Custom group files that have been created or edited in your own system or shared from other users can be uploaded into TableBuilder.

To upload a custom group:

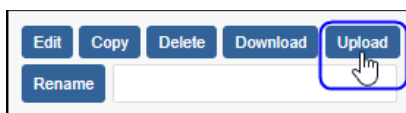
- You must have access to the dataset that the custom group was created in.
- The dataset that relates to the custom group must be open.

- Upload files must be in CSV format.
- The structure of the custom group file must be retained using the same column headings.
- The name of the group in the saved file must not be the same as an existing custom group. TableBuilder displays an error if a custom group with the same name as an existing group is attempted to be loaded. Delete the existing custom group, rename it, or rename the group saved in the file (by changing the value of the GroupName in the final column).
- Only one saved group can be uploaded at a time.

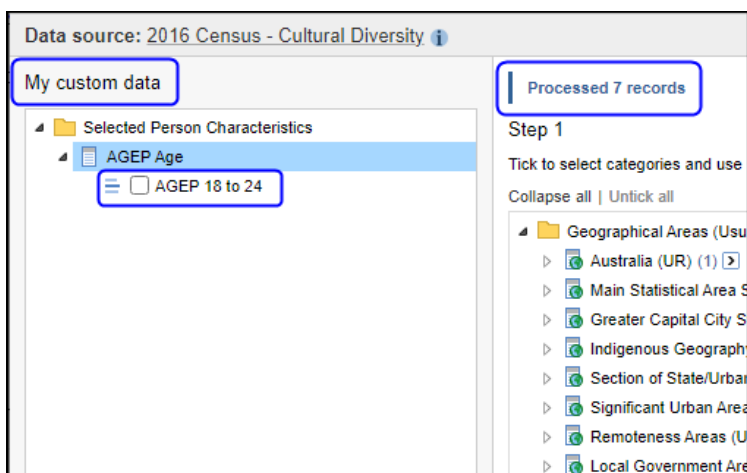
1. To load a custom group from a file, open the dataset that was used to create the recode, and click on the Custom Data button at the bottom of the left panel in the Table view.



2. In the My custom data panel, click the Upload button.



3. Browse to the location where you saved your custom group file and select the file. When uploaded, TableBuilder adds the new group to the My custom data panel.



4. If there is a problem with the upload, an error message is displayed.

Common errors when uploading a custom data group:

Custom Data Upload Errors and Their Explanations

Error	Explanation
Upload error. 61 out of 65 lines successfully imported. A values code or name is not found.	The ValueCode column, which is the numeric code for a variable name, may be missing leading zeros. Check if the classification you have edited includes leading zeros.
Upload error. 0 out of 1,464 lines successfully imported. A group with this name already exists.	The Custom Data group has previously been uploaded or the name has already been used. You will need to change the value of the GroupName in the final column to load the file.
Upload error. 0 out of 1,464 lines successfully imported. A tables code or name is not found.	The upload file doesn't match the dataset that is open. You will need to open the matching dataset to load the file. If you already have the correct file open, the information in the FactTableCode or FactTableName may be incorrect. You can check what this should be by downloading any custom data from the same dataset.
Uploaded file has invalid CSV header. Expecting column names FactTableCode, FactTableName, FieldCode, FieldName, ValueSetCode, ValueSetName, ValueCode, ValueName, GroupName but read [, FactTableName, FieldCode, FieldName, ValueSetCode, ValueSetName, ValueCode, ValueName, GroupName]	The header row contains an error. Check the header row in your file to ensure it has the correct names, as listed in the examples pictured above.
The requested URL was rejected. Please consult with your administrator.	This message may be caused by a number of different actions. In this context it may be caused by trying to load an incorrect file type, such as an XLS. Only CSV files can be used when uploading Custom Data Groups.
No error but file does not upload.	Your upload file may be too large. The maximum upload file is 20 million bytes (19.07MB).

Upload Commonwealth and state electoral divisions and local government areas

Commonwealth electoral divisions (CED), state electoral divisions (SED) and local government areas (LGA) boundaries change over time. ABS has prepared upload files to assist users to update the boundaries available within Census TableBuilder.

TableBuilder upload files for CEDs, SEDs and LGAs are available for use with Census 2016 datasets:

[Australian Statistical Geography Standard \(ASGS\): Volume 3 - Non ABS Structures \(https://www.abs.gov.au/ausstats/abs@.nsf/mf/1270.0.55.003\)](https://www.abs.gov.au/ausstats/abs@.nsf/mf/1270.0.55.003) (see Downloads tab)

Earlier boundaries are also available using SA1s for use with Census 2011 datasets:

[2016 Commonwealth Electoral Divisions \(https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata2016ced?opendocument&navpos=240\)](https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata2016ced?opendocument&navpos=240)
[2012 Commonwealth Electoral Divisions \(https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata2012ced?opendocument&navpos=240\)](https://www.abs.gov.au/websitedbs/censushome.nsf/home/tablebuilderdata2012ced?opendocument&navpos=240)

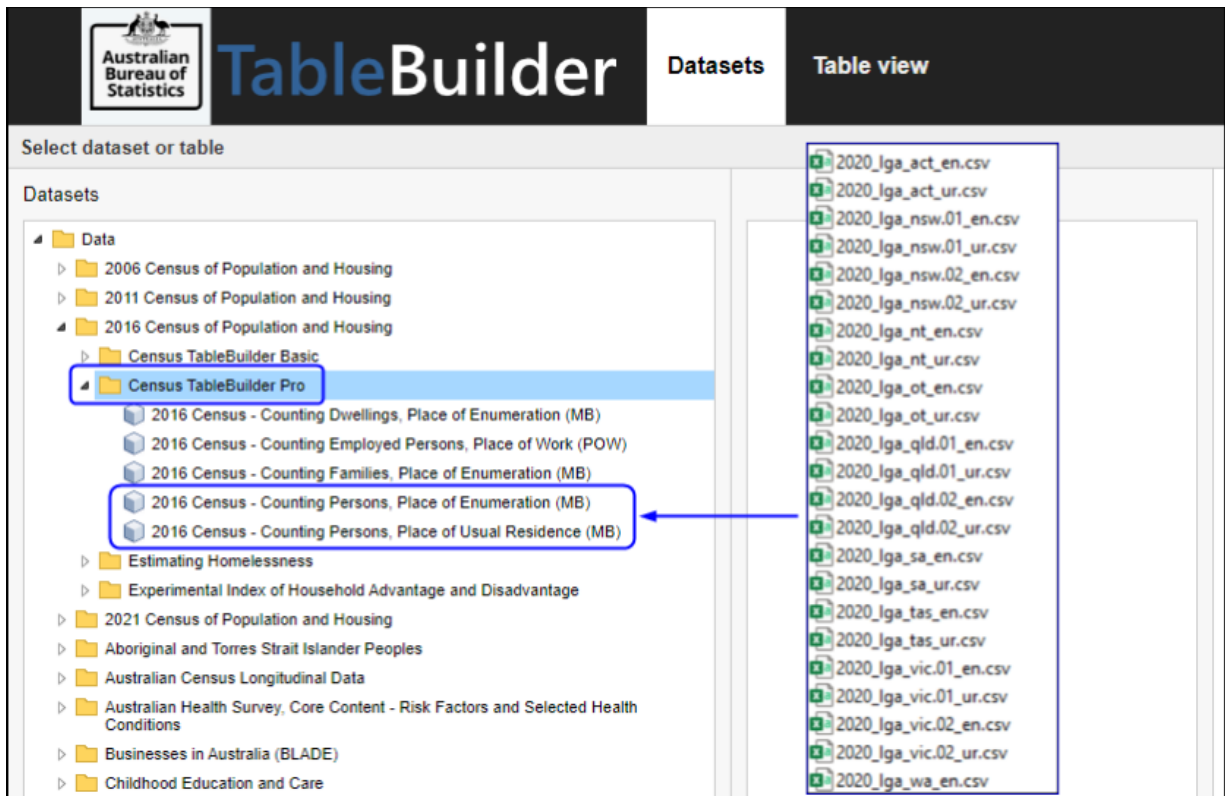
1. Download CSV file from the Downloads tab in [Australian Statistical Geography Standard \(ASGS\): Volume 3 - Non ABS Structures \(https://www.abs.gov.au/ausstats/abs@.nsf/mf/1270.0.55.003\)](https://www.abs.gov.au/ausstats/abs@.nsf/mf/1270.0.55.003) and save it to your computer.

Census TableBuilder Recodes for ASGS Ed 2020 Local Government Areas	
Census TableBuilder Recodes for ASGS Ed 2020 State Electoral Divisions	

2. Files are available for Australia and for each state and territory. These files are suitable for use with the following 2016 Census of Population and Housing - TableBuilder Pro datasets:

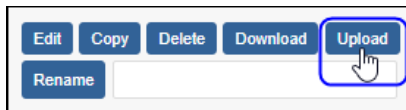
2016 Census - Counting Persons, Place of Enumeration (MB) - compatible files are annotated with en (enumeration)

2016 Census - Counting Persons, Place of Usual Residence (MB) - compatible files are annotated with ur (usual residence)



3. Log into TableBuilder and open the dataset you are interested in. This example uses 2016 Census - Counting Persons, Place of Usual Residence (MB).

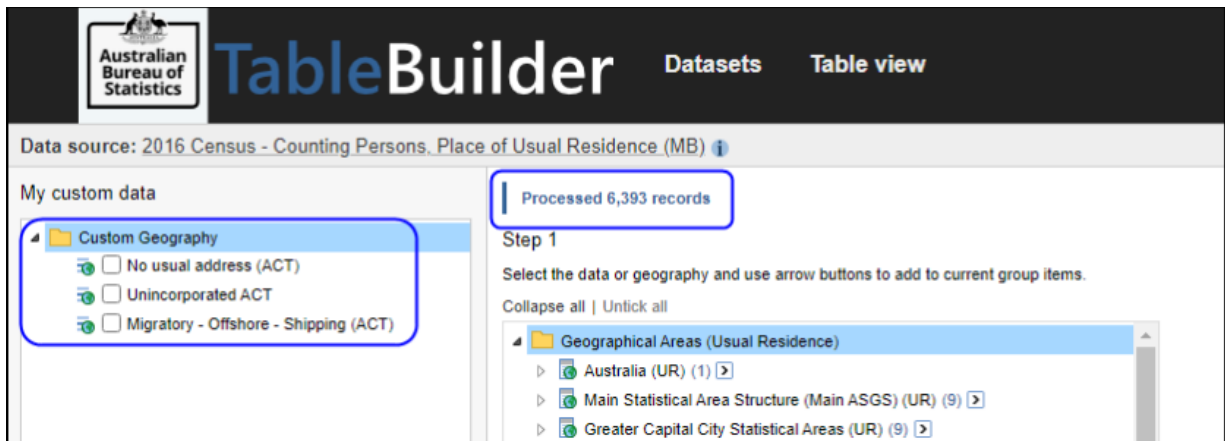
- Click on to the Custom data button on the left panel of the Table view.
- Click the upload button at the bottom left of the screen.



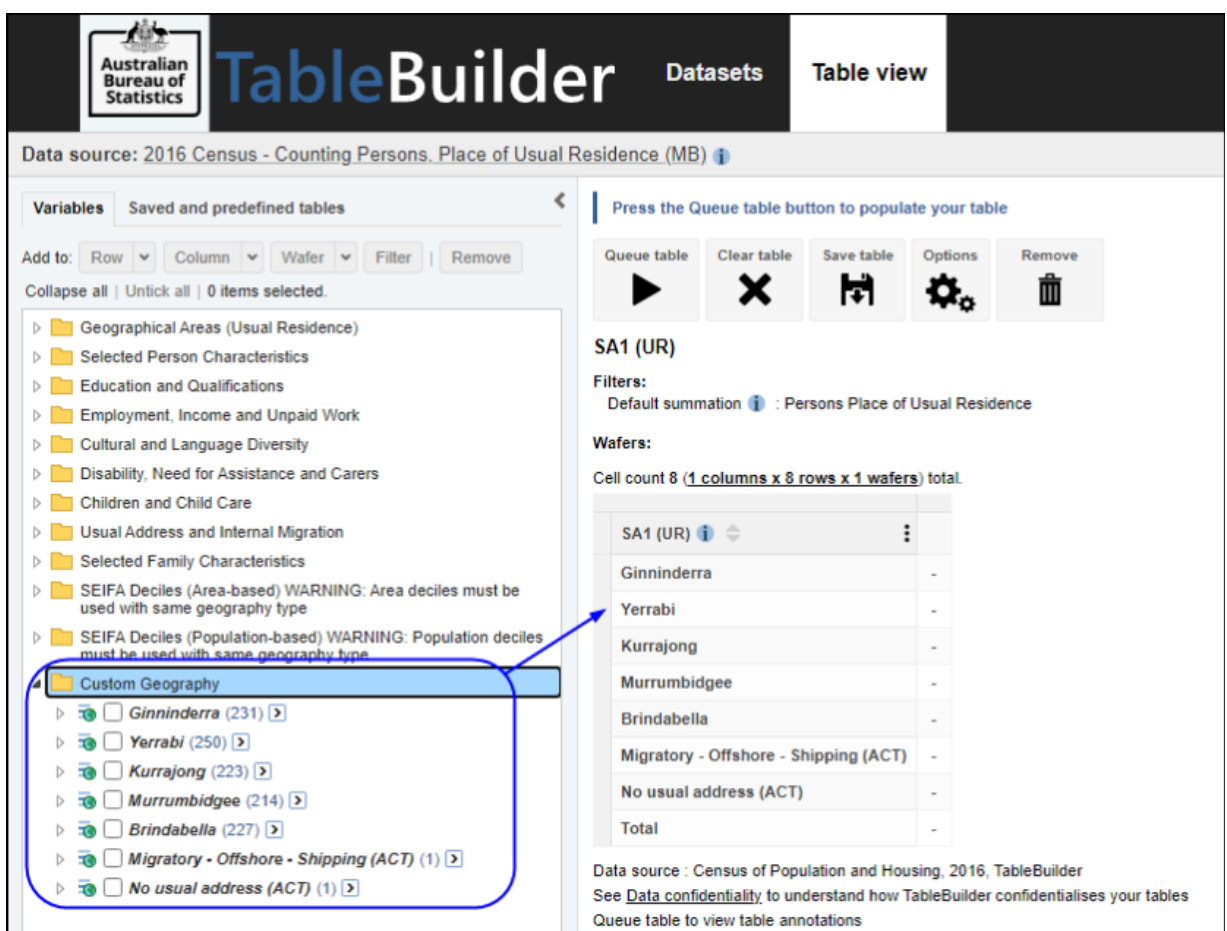
4. Find the location where the CED files have been saved and select the region you are interested in (Australia, state or territory). This example uses 2020_lga_act_ur_csv.

	A	B	C	D	E
1	FactTableCode	FactTableName	FieldCode	FieldName	ValueSetCode
2	Person Records	Persons Place of Usual Residence	2152295	MB by Local Government Areas (2016 Boundaries) (UR)	2152295_MB
3	Person Records	Persons Place of Usual Residence	2152295	MB by Local Government Areas (2016 Boundaries) (UR)	2152295_MB
4	Person Records	Persons Place of Usual Residence	2152295	MB by Local Government Areas (2016 Boundaries) (UR)	2152295_MB
5	Person Records	Persons Place of Usual Residence	2152295	MB by Local Government Areas (2016 Boundaries) (UR)	2152295_MB
6	Person Records	Persons Place of Usual Residence	2152295	MB by Local Government Areas (2016 Boundaries) (UR)	2152295_MB
7	Person Records	Persons Place of Usual Residence	2152295	MB by Local Government Areas (2016 Boundaries) (UR)	2152295_MB

5. When the upload has completed, a message appears on the right to confirm the number of rows that have been loaded from the CSV file (not including the heading row). The uploaded custom data appears in the My custom data panel under Custom Geography. If you receive an error when uploading a file, check the errors and causes listed in the [Upload a custom data group \(#upload-a-custom-data-group\)](#) section above.



6. In the Table view tab the custom data you uploaded appears under the Custom Geography folder. You can select multiple tick boxes at once by holding down the Shift key to add the NSW CEDs to a table.



Summation options for continuous variables

How to use summation options and ranges for continuous variables

Released 19/11/2021

Summation options

Understanding what is being counted

When you open a dataset and build a table, most datasets display the default summation above the table. This tells you what you are counting in your table. For example, your table may be counting persons, families, households, or motor vehicles. Some datasets also allow you to choose a summation option where you can vary what the table is counting. For example, a dataset may include options for counting number of drinks of alcohol consumed or number of kilometres travelled.

The [i](#) link next to the default summation provides further information about what is being counted for the default summation.

For tables that do not use the default summation, an annotation displays below the table indicating what is being counted.

The screenshot shows the TableBuilder interface with the following components:

- Header:** Australian Bureau of Statistics logo, 'TableBuilder' title, and tabs for 'Datasets' and 'Table view'.
- Toolbar:** Queue table, Clear table, Save table, Options, and Remove buttons.
- Left Panel:** 'Variables' and 'Saved and predefined tables' tabs. A list of datasets is shown under 'Data', including '2016 Census Age by Sex'.
- Main Panel:** Table titled 'AGE5P - Age in Five Year Groups by STATE (UR) and SEX Sex'.
 - Filters:** Default summation : Persons Place of Usual Residence.
 - Wafers:** Cell count 660 (30 columns x 22 rows x 1 wafers) total, 440 (20 columns x 22 rows x 1 wafers).
 - Table Structure:**

STATE (UR)	New South Wales	Victoria		
SEXP Sex	Male	Female	Male	Female
AGE5P - Age in Five Year Groups				
0-4 years	-	-	-	-
5-9 years	-	-	-	-

Categorical and continuous variables

Some datasets include categorical variables only while other datasets also include continuous variables.

Categorical variables have limited discrete responses, such as State/Territory or Marital status.

Continuous variables can take any numerical value and can be measured. In TableBuilder continuous variables may have options to calculate sum, median, mean or ranges.

In TableBuilder, some variables may be included as both categorical or continuous. For example:

- Age may be categorical, where you can select specific ages to include in your table, and continuous, where you can calculate the median age for a population.
- Income may be provided as a categorical variable in set ranges, such as \$0-\$499, \$500-\$999 etc, and may also be provided as a continuous variable, where you can create your own custom ranges, including decimal places.

Please note that both Census TableBuilder Basic and Census TableBuilder Pro do not include continuous variables.

Calculations for median, mean and sum cannot be applied to variables in these datasets within TableBuilder.

Summation options functions

Datasets that include continuous variable functions have a Summation options folder at the top of the variable list panel on the left of the Table view. Summation options control what is being measured in the table. If a summation option is not added to the table or if there is no summations options folder, TableBuilder automatically adds the default summation option for that dataset.

Summation options allow you to calculate the following functions for continuous variables:

- sum - add all responses, such as total number of drinks consumed for a population
- median - the midpoint of the frequency distribution
- mean - average
- ranges - create your own custom intervals

For example, instead of counting the number of males and females who consume alcohol, you can display the total number of standard drinks consumed by males and females. For survey data, this is weighted based on population estimates.

A table that includes a sum, median or mean for a continuous variable only includes those records in the dataset that have a valid value. For example, records with responses for the continuous variable such as 'N/A' or 'Did not respond' are excluded. The records that have valid responses for a variable are determined for each individual cell of the table, including total cells. For further information about valid values, see [Interpreting sums, means and medians \(#interpreting-sums-means-and-medians\)](#).

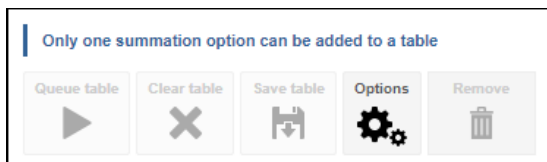
Add a sum, median or mean to a table

1. Click on Summation options at the top of the left panel in Table view. Summation options are only visible for datasets that include continuous variables.
2. Select one of the sum, median or mean tick boxes and Add to row, column or wafer. In this example, the Sum of Number of standard drinks by day has been added to row.



3. Only one sum, median or mean can be added to a table at a time:

- If you try to add a second sum, median or mean to a table that already includes one, TableBuilder automatically removes the existing one and adds the new one.
- If you try to add more than one summation at the same time by ticking more than one of sum, median or mean, TableBuilder displays a error message "Only one summation option can be added to a table"



4. The Weighted sum of Number of standard drinks by day has been added to the row.

Queue table

Clear table

Save table

Options

Remove

▶

✕

📄

⚙️

🗑️

Weighted sum of Number of standard drinks by day


Wafers:

Cell count 1 (1 columns x 1 rows x 1 wafers) total.

Weighted sum of Number of standard drinks by day	ⓘ	⋮
Weighted sum of Number of standard drinks by day		-

Data source : National Health Survey, 2017-18, TableBuilder

5. Other variables can be added to the table. The variable Sex is added to column, and the table is queued and downloaded. This table displays the Weighted sum of Number of standard drinks by day, which is 59 million standard drinks for all males in Australia and 28 million for all females.

	A	B	C	D	E	F	G
1	<div> Australian Bureau of Statistics</div>						
2	National Health Survey, 2017-18						
3	Weighted sum of Number of standard drinks by day by Sex of person						
4	Counting: Weighted sum of Number of standard drinks by day						
5							
6	Sex of person		Male	Female	Total		
7		Weighted sum of Number of standard drinks by day (^)					
8			59886553	28782749.1	88736261.9		
9	Dataset: National Health Survey, 2017-18, TableBuilder						
10							
11	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.					
12	Symbol	Description					
13							
14	^	Standard drinks					
15	No reliance should be placed on small cells.						
16							
17							
18	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
19	ABS data licensed under Creative Commons, see abs.gov.au/ccby						

6. To display the median or mean Number of standard drinks consumed instead of the sum, select the new option from the summation options on the left, and Add to row again. This automatically replaces the summation option currently in the table.



TableBuilder

Datasets
Table view

Data source: [National Health Survey, 2017-18](#)

Variables
Saved and predefined tables

Add to Row Column Wafer Filter Remove

Collapse all Untick all | 1 items selected.

- Summation options
 - Household level
 - Selected Persons level
 - Alcohol Day level
 - Number of standard drinks by day
Weighted by: (Selected persons (4))
☐ Sum ☒ Median ☐ Mean Range
 - Total quantity of pure alcohol consumed by day - in mls
Weighted by: (Selected persons (4))
☐ Sum ☐ Median ☐ Mean Range
 - Alcohol day level weights
 - Alcohol Type level
 - Conditions level

Queue table

Clear table

Save table

Options


Remove

Your table is empty. Add variables from the list on the left.


--	--

Data source : National Health Survey, 2017-18, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables

7. After downloading the table, the Weighted median Number of standard drinks by day was 3.2 drinks for Males, 2.2 drinks for Females and 2.8 drinks for all persons.

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
2	National Health Survey, 2017-18						
3	Weighted median of Number of standard drinks by day by Sex of person						
4	Counting: Weighted median of Number of standard drinks by day						
5							
6	Sex of person		Male	Female	Total		
7		Weighted median of Number of standard drinks by day (%)					
8			3.2	2.2	2.8		
9	Dataset: National Health Survey, 2017-18, TableBuilder						
10							
11	INFO	Tabulation quantile boundaries in this table have been randomly adjusted to avoid the release of confidential data					
12	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.					
13	Symbol	Description					
14							
15	%	Standard drinks					
16	No reliance should be placed on small cells.						
17							
18							
19	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
20	ABS data licensed under Creative Commons, see abs.gov.au/ccby						

8. Similarly, when the Weighted mean Number of standard drinks by day is added to the row, it automatically replaces the median. The Weighted mean of Number of standard drinks by day was 4.7 drinks for Males, 3.1 drinks for Females and 4.0 drinks for all persons. The mean is calculated based on the population of people who have a valid response, and does not include people who do not drink or children. See [Interpreting sums, means and medians \(#interpreting-sums-means-and-medians\)](#) for more information about valid responses for continuous variables.

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
2	National Health Survey, 2017-18						
3	Weighted mean of Number of standard drinks by day by Sex of person						
4	Counting: Weighted mean of Number of standard drinks by day						
5							
6	Sex of person		Male	Female	Total		
7	Weighted mean of Number of standard drinks by day (+)						
8			4.7	3.1	4		
9	Dataset: National Health Survey, 2017-18, TableBuilder						
10							
11	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.					
12	Symbol	Description					
13							
14	+	Standard drinks					
15	No reliance should be placed on small cells.						
16							
17							
18	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
19	ABS data licensed under Creative Commons, see abs.gov.au/ccby						

9. If all Summation Options are removed from the table, TableBuilder automatically adds in the Default summation option back into the table. If the weighted mean is removed from the above table, by dragging it into Remove, TableBuilder confirms that 'Removed all the summation options from the table. Your table is now using the default summation option, listed in the Filter'. In this case, the table has reverted to counting Selected persons.

Removed all the summation options from the table. Your table is now using the default summation option, listed in the Filter.

Queue table
Clear table
Save table
Options
Remove

Sex of person

Filters:
Default summation ⓘ : Selected persons (3)

Wafers:

Cell count 3 (3 columns x 1 rows x 1 wafers) total.

Sex of person ⓘ	Male	Female	Total
	-	-	-

Data source : National Health Survey, 2017-18, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables
Queue table to view table annotations

Interpreting sums, means and medians

Estimates of sums, medians, means and ranges for continuous variables must be interpreted carefully. You should read the entry for the continuous variable in the data item list for the dataset, checking the population and the 'special response' categories.

A continuous variable on a dataset has an associated range of 'valid value' responses, and also may have various categories of response that are 'special', for example a special response may be 'Not applicable' or 'Not stated'. These special responses may occur for a variety of reasons, such as the relevant question does not apply to certain records, or the information is unable to be determined. Read the dataset documentation and data item list for detailed information. To open the website dataset information, click the i link at the top left next to the dataset name when in Table view. This opens in a new tab so you can continue working in TableBuilder.

Whenever a sum or mean is included in a table for a continuous variable, the statistic is estimated for the variable's reference population with a valid response.

A continuous variable that does have possible special responses appears in two different sections of the variables list panel:

- as a selectable summation option (continuous variable)
- as a categorical variable under the relevant grouping

The version that appears as a categorical variable contains categories for each of the special response types, and one for 'valid' responses. You can use this variable for population estimates of the various special response types (such as 'No Response'). It is highly recommended when interpreting a table of means or sums of a variable that the corresponding categorical variable be used in separate tabulations of population counts.

When interpreting a table of median estimates, it is also important to understand the population for which the estimate applies, and the valid responses. If there are a small number of records making up a cell's reference population with a valid response, the cell may be suppressed, showing a value of '0' or 'np'. The suppression occurs to prevent the release of disclosive information. The relative standard error (RSE) for each median estimate is estimated using the Woodruff method, which is a replicate weight method. Further information is available in the [Relative standard error \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#relative-standard-error\)](#) section.

1. When working with sum, median and mean, check the data item list for the dataset to see the population to which the variable applies.

- Access the data item list via the i link next to the dataset name in the Table view.
- You can also access data item lists via the relevant publication on the [Topics \(/statistics/microdata-tablebuilder/tablebuilder/topics\)](#) page.



Australian Bureau of Statistics

Australian Bureau of Statistics

Australian Bureau of Statistics

National Health Survey, 2017-18

Number of standard drinks consumed by type of drink consumed by Sex of person

Counting: Selected persons (3)

Filters:

Default Summation: Selected persons (3) (#)

Sex of person

Male

Female

Total

Number of standard

A valid response was recorded.

Did not consume alcohol in the last week

Have never consumed alcohol

Total

5798.3

4504.8

10303

2781.5

3661.3

6441.7

999.3

1758.8

2755.6

9576.5

9924.9

19503.7

Dataset: National Health Survey, 2017-18, TableBuilder

Cells in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies may occur between sums of the component items.

Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.

Description

(000's)

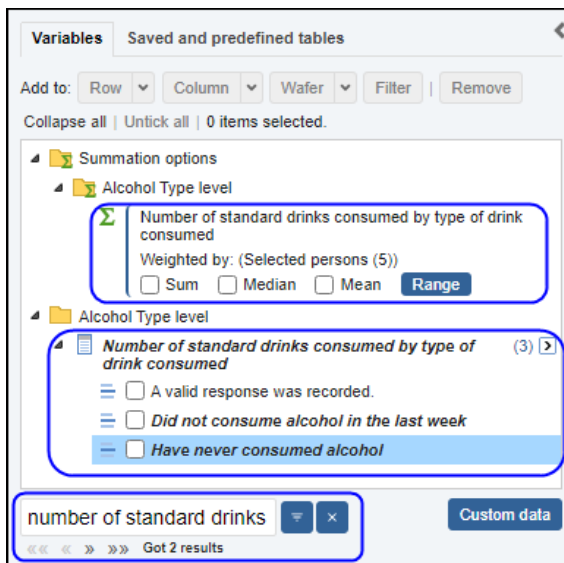
© Copyright Commonwealth of Australia, 2021, see [abs.gov.au/copyright](#)

ABS data licensed under Creative Commons, see [abs.gov.au/ccby](#)

3. Using the earlier example, open the National Health Survey, 2017-18 dataset and search for Number of standard drinks

consumed using the search box in the lower left corner. This finds two results in the variables list.

1. a continuous variable (summation option)
2. a categorical variable that can be used to find the number of records that recorded a valid response, and that were used to calculate the mean.



4. If a table is created using Sex and the categorical version of Number of standard drinks consumed, the weighted number of persons whose responses contributed to the sum and mean are displayed. This table is now counting persons in thousands (000's). The categorical variable for Number of standard drinks consumed provides estimates of the size of the population to which the above sum, median and mean are calculated. It also provides the sizes of the populations to which it does not apply, for example, the category 'Have never consumed alcohol', which also includes people under the age of 15 years.

There were weighted counts of 5.8 million males and 4.5 million females whose responses were included in the sum and mean. An incorrect result would have occurred for mean if the persons who did not consume any alcohol were recorded as consuming a valid value of 0 standard drinks.

Australian Bureau of Statistics TableBuilder Datasets Table view

Data source: National Health Survey, 2017-18

Variables Saved and predefined tables

Add to: Row Column Wafer Filter Remove

Collapse all | Untick all | 0 items selected.

Summation options

- Household level
- Selected Persons level
- Alcohol Day level
- Alcohol Type level**
 - Number of standard drinks consumed by type of drink consumed
 - Weighted by: (Selected persons (5))
 - ☐ Sum ☐ Median ☐ Mean **Range**
 - Total quantity of pure alcohol consumed - in ml
 - Weighted by: (Selected persons (5))
 - ☐ Sum ☐ Median ☐ Mean **Range**
 - Total volume of alcoholic beverage type consumed - in mls
 - Weighted by: (Selected persons (5))
 - ☐ Sum ☐ Median ☐ Mean **Range**
- Alcohol type level weights
- Conditions level

Queue table Clear table Save table Options Remove

Your table is empty. Add variables from the list on the left.

Data source : National Health Survey, 2017-18, TableBuilder
See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables

2. The Ranges screen appears.

- Enter a name for the range (no longer than 25 characters).
- Enter the minimum and maximum values for your range in To and From.
- When selecting the From and To values, select less than $<$ or less than or equal to \leq in the drop-down menu to choose whether to include the lower boundary or upper boundary in each range.
- Enter an increment for each range - this is the size of each range category that will be created.

Range of Number of standard drinks consumed by type of drink consumed

Name
Standard drinks range

Custom ranges Quantile

From 1 $<$

To 30 \leq

Increment 5

Cancel Next

3. If values are selected outside the allowable range values, TableBuilder displays information about the minimums and maximums you can select. You can use this information to help you decide on appropriate range parameters. Click Next.

Range of Number of standard drinks consumed by type of drink consumed

Name
Standard drinks range

Custom ranges Quantile

From 0 < ▾

To 50 ≤ ▾

Increment 2

Check that your ranges are between 0.2 and 30, with an increment of at least 0.1.
As well the following constraints apply:

1. The increment cannot be bigger than the difference between min and max.
2. There can be at most 1,000 ranges.
3. Any number must have an absolute value less than 10^{120} .

Cancel Next

4. The ranges to be included are displayed. Edit by clicking Back or continue by clicking Create.

Range of Number of standard drinks consumed by type of drink consumed

Standard drinks range

Custom ranges of Number of standard drinks consumed by type of drink consumed

Ranging from 1 or less to More than 26 in increments of 5

1 or less
More than 1 to 6
More than 6 to 11
More than 11 to 16
More than 16 to 21
More than 21 to 26
More than 26

Cancel Back Create

5. This creates your range, and adds it to a new Ranges folder in the variables list panel in the Table View below the Summation options folder. Click on the Ranges folder to view your range. The Ranges variable is now saved and can be used to a table now or for future tables using this dataset.

Variables Saved and predefined tables

Add to: Row ▾ Column ▾ Wafer ▾ Filter | Remove

Collapse all | Untick all | 0 items selected.

Summation options

Ranges

Standard drinks range (7) Manage

☐ 1 or less

☐ More than 1 to 6

☐ More than 6 to 11

☐ More than 11 to 16

☐ More than 16 to 21

☐ More than 21 to 26

☐ More than 26

Household level

Selected Persons level

Alcohol Day level

Alcohol Type level

Conditions level

Medications level

Health Literacy level

6. Custom ranges can be added to a table like any other variable, by dragging and dropping, or using the Add buttons at the

top of the left panel.

Queue table

Clear table

Save table

Options

Remove

Standard drinks range by Sex of person

Filters:
Default summation ⓘ : Selected persons (3)

Wafers:

Cell count 24 (3 columns x 8 rows x 1 wafers) total.

Sex of person ⓘ	Male	Female	Total
Standard drinks range ⓘ			
1 or less	-	-	-
More than 1 to 6	-	-	-
More than 6 to 11	-	-	-
More than 11 to 16	-	-	-
More than 16 to 21	-	-	-
More than 21 to 26	-	-	-
More than 26	-	-	-
Total	-	-	-

Data source : National Health Survey, 2017-18, TableBuilder

See [Data confidentiality](#) to understand how TableBuilder confidentialises your tables

Queue table to view table annotations

Copy and delete ranges

1. To copy or delete a ranges variable, open the Ranges folder below the Summation options folder in the left hand panel. Click the Manage button next to your variable.

Variables

Saved and predefined tables

Add to:

Row

Column

Wafer

Filter

Remove

Collapse all

Untick all

0 items selected.

Summation options

Ranges

Standard drinks range (7) Manage

1 or less

More than 1 to 6

More than 6 to 11

More than 11 to 16

More than 16 to 21

More than 21 to 26

More than 26

Household level

Selected Persons level

Alcohol Day level

Alcohol Type level

Conditions level

Medications level

Health Literacy level

2. The Ranges management screen opens.

Range of Number of standard drinks consumed by type of drink consumed

Standard drinks range

Custom ranges of Number of standard drinks consumed by type of drink consumed

Ranging from 1 or less to More than 26 in increments of 5

1 or less

More than 1 to 6

More than 6 to 11

More than 11 to 16

More than 16 to 21

More than 21 to 26

More than 26

Cancel

Copy

Delete

3. To copy a range, click the Copy button. The Ranges screen opens with the parameter values for the existing Ranges variable entered. Change the parameters and rename the range, then clicking the Next button to continue to create the new range.

4. To delete a range permanently, click Delete. A confirmation screen opens showing items that you have created using this range:

- any groups you have created (using [Custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data))
- any tables you have saved

Clicking OK deletes these groups and tables as well as the ranges variable.

Are you sure?

Deleting Range of standard drinks will also delete the following tables and groups:

Group name	Last modified
Standard drinks consumed	Thursday, Sep 01, 2022

Table name	Last modified
Range of standard drinks x sex	Thursday, Sep 01, 2022

Cancel

OK

Confidentiality and relative standard error

Perturbation and interpreting tables with small cells, sparsity and relative standard errors

Released 19/11/2021

In accordance with the [Census and Statistics Act 1905 \(https://www.abs.gov.au/websitedbs/D3310114.nsf/Home/ABS+Legislative+Framework\)](https://www.abs.gov.au/websitedbs/D3310114.nsf/Home/ABS+Legislative+Framework) , all the data in TableBuilder is subject to a confidentiality process before release. This confidentiality process is undertaken to avoid releasing information that may allow for the identification of particular individuals, families, households, dwellings or businesses. For further details of how the ABS handles your information, see the [ABS privacy policy \(/about/legislation-and-policy/privacy/privacy-abs\)](/about/legislation-and-policy/privacy/privacy-abs) , [Census privacy policy \(/census/learn/keeping-your-information-safe\)](/census/learn/keeping-your-information-safe) and [TableBuilder Privacy Impact Assessment \(/about/legislation-and-policy/privacy/privacy-impact-assessments/2022+TableBuilder+PIA.pdf\)](/about/legislation-and-policy/privacy/privacy-impact-assessments/2022+TableBuilder+PIA.pdf) .

Cross-tabulation restrictions

System restrictions have been implemented which prevent the cross-tabulation of certain variables within several datasets.

These restrictions have been applied to:

- maintain the confidentiality of respondents
- ensure the output of quality data
- assist users by not allowing combinations of variables that statistically should not be combined.

When the restriction is triggered the following error message will be displayed: "The variable you are trying to add cannot be used with one of the variables already in the table."

These restrictions are applied at the system level and can not be bypassed, though other similar variables may be available. For example, if you are using geographical areas from Mesh Blocks, you may be able to use another geographical area variable instead.

Perturbation

To minimise the risk of identifying individuals in aggregate statistics, a technique has been developed to randomly adjust cell values. Random adjustment of the data, known as perturbation, is considered to be the most satisfactory technique for avoiding the release of identifiable data while maximising the range of information that can be released. These adjustments have a negligible impact on the underlying pattern of the statistics.

Perturbation is applied across all non-zero cells in a table, including the totals cells. Perturbation may change the true cell value by either increasing or decreasing the value by a small amount. Within this context, although cells may appear to contain none, or all, of a relevant sub-population, this is not necessarily a reflection of the true value of the cell. These adjustments result in introduced random errors, but with almost no bias. The information value of the table as a whole is not significantly impaired.

Random perturbation can be a source of frustration to users, as it can result in inconsistencies in the data. Most tables reporting basic statistics do not show significant discrepancies due to random perturbation. However, as the degree of complexity of tables increases, the need for random perturbation remains and it will continue to be used in most TableBuilder datasets.

Totals

In TableBuilder, totals are not calculated by summing the interior values of the table. Instead, more accurate totals are provided by calculating the true total, and then perturbing this value. If you attempt to reconstruct a total on the basis of the perturbed interior cells, you are adding together the small changes made to each cell which may result in a large change relative to the perturbed total. It is recommended that totals are constructed in TableBuilder, rather than by summing the interior cells from an exported table.

Small cells

When calculating proportions, percentages or ratios from cross-classified or small area tables, the introduced random error can be ignored except for small cells. The introduced random adjustments made to cells in a table are independent of the size of the original cell value, so perturbation has the greatest relative impact on small cell values. The information value of the table as a whole is not impaired as small cell values are also strongly affected by other factors, such as sampling error, respondent errors and processing errors.

Small cells may not be reliable, as not enough records have been selected in the sample to accurately estimate the population for that combination of characteristics. To continue working, you can try creating a variant of the original table. For example, removing a Not applicable category may reduce the number of small cells in the table. Possible methods to improve reliability of the table include:

- removing one or more variables
- removing one or more categories
- using a less detailed level of a hierarchical variable
- creating a custom range to combine less relevant categories.

Caution should be exercised when interpreting and using cells with small values or large percentage [Relative standard error \(#relative-standard-error\)](#) (RSE) values. RSEs are provided for survey-based datasets that are subject to sampling variability.

Datasets including the full Census of Population and Housing are not weighted so RSEs are not applicable.

When analysing a table of means or sums for a continuous variable, it is recommended that the table be compared to the corresponding table of counts of records with a valid response for that continuous variable. No reliance on estimates of means or sums should be placed on cells with a large RSE or for which the corresponding cell count is small. For more information, see the [Summation options for continuous variables \(/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables\)](/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables) section.

Further information

- General information about confidentiality and perturbation is provided in [Treating aggregate data \(/about/data-services/data-confidentiality-guide/treating-aggregate-data\)](/about/data-services/data-confidentiality-guide/treating-aggregate-data) in the Data confidentiality guide
- [About the Census \(/census/about-census\)](/census/about-census)
- [Census methodology, 2021 \(/census/guide-census-data/census-methodology/2021\)](/census/guide-census-data/census-methodology/2021)
- You need to agree to [Conditions of use \(/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use#tablebuilder\)](/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use#tablebuilder) when using TableBuilder. The ABS may impose a limit on the maximum number of tables per user.

Relative standard error

Some datasets, such as censuses of a population, are not weighted so the relative standard errors (RSE) do not apply and are not available in TableBuilder. RSEs are available for sample-based datasets that are subject to sampling variability. Refer to the TableBuilder section of each dataset's publication for information on reliability of estimates within these datasets. Publications for each TableBuilder dataset can be accessed from the [Topics \(/statistics/microdata-tablebuilder/tablebuilder/topics\)](/statistics/microdata-tablebuilder/tablebuilder/topics) page, or within TableBuilder, click the i link at the top left next to the dataset name when in Table view. This opens in a new tab so you can continue working in TableBuilder. RSEs will automatically included in any downloaded table.

Sources of variability

There are two sources of uncertainty or variability associated with survey estimates that are released by TableBuilder. The first source of variability is due to sampling and the second is due to random adjustment of cell values.

Variability due to sampling

Since the estimates from surveys may be based on information obtained from a sub-sample of usual residents of a sample of dwellings, they are subject to sampling variability. They may differ from those that would have been produced if all usual residents of all dwellings had been included in the survey.

Most weighted datasets in TableBuilder measure this component of variability using the group Jackknife method.

These datasets use the Bootstrap method:

- Employee earnings and hours
- Motor vehicle use
- Road freight movements

Variability due to random adjustment

The random adjustment of totals and subtotals introduces another source of variability into the estimates. As these adjustments are generated in a predictable way the impact they have on estimates can be measured directly.

Standard errors

The variability due to sampling and random adjustment is combined into a single measure called the standard error (SE). The standard error indicates the extent to which an estimate might have varied by chance, because only a sample of dwellings was included, and by random adjustment.

There are about two chances in three that a sample estimate differs by less than one standard error from the number that would have been obtained if all dwellings had been included and there was no random adjustment. There are about 19 chances in 20 that the difference is less than two standard errors. Another measure of the likely difference is the relative standard error (RSE), which is obtained by expressing the standard error as a percentage of the estimate.

$$RSE\%(x) = \left(\frac{SE(x)}{x} \right) * 100$$

RSEs of proportions and percentages

Proportions and percentages formed from the ratio of two estimates are also subject to sampling errors. The size of the error depends of the accuracy of both the numerator and denominator. For proportions where the denominator is an estimate of the number of persons in a group and the numerator is the number of persons in a sub-group of the denominator group, the formula to approximate the RSE is given below. The formula is only valid when x is a subset of y.

$$RSE\left(\frac{x}{y}\right) \cong \sqrt{RSE(x)^2 - RSE(y)^2}$$

For proportions where the denominator and numerator are independent estimates, for example a ratio of rates relating to two separate populations such as Indigenous and Non-Indigenous, the formula to approximate the RSE is given below. The formula is only valid when x and y are estimated from separate independent populations, and when the RSEs on x and y are small.

$$RSE\left(\frac{y}{x}\right) \cong \sqrt{RSE(y)^2 - RSE(x)^2}$$

Standard errors may also be used to calculate standard errors for the difference between two survey estimates (numbers or percentages). The sampling error of the difference between the two estimates depends on their individual standard errors and the relationship (correlation) between them. An approximate standard error of the difference between two estimates (x-y) may be calculated by the following formula:

$$SE(x - y) \cong \sqrt{SE(x)^2 + SE(y)^2}$$

While this formula is only exact for differences between separate and uncorrelated characteristics of subpopulations, it is expected to provide a reasonable approximation for most differences likely to be of interest in relation to this survey.

In TableBuilder, it is the RSE of a percentage that is displayed, from which the standard error may be calculated. For example, if the estimated proportion is 30% with an RSE of 20%, then the standard error for the proportion is 6%.

In some cases, the formula for the approximation of the RSE of a proportion may be unsuitable to use because the RSE of the numerator is very close to, or below, the RSE of the denominator. In this case the RSE is suppressed. It is recommended to use the alternative formula below to calculate the RSE of the proportion if this occurs.

$$RSE\left(\frac{x}{y}\right) \cong \sqrt{RSE(x)^2 + \left(1 - \frac{2x}{y}\right) * RSE(y)^2}$$

Standard errors of means and sums

The estimates of means and sums of continuous variables are subject to sampling variability and random adjustment. As for population estimates, the variability due to sampling and random adjustment is combined into the calculated Standard Error, and the relative standard error is reported. The component of variability arising from sampling is calculated using either the

Jackknife or Bootstrap method, depending on the [dataset](#)
 (#::~text=of%20cell%20values.-,Variability%20due%20to%20sampling).

Standard errors of quantiles

The estimates of quantiles such as medians, quartiles, quintiles and deciles are subject to sampling variability and random adjustment. As for population estimates, the variability due to sampling and random adjustment is combined into the calculated Standard Error, and the relative standard error is reported. The component of variability arising from sampling is calculated using the Woodruff method. This is also true for Equal Distribution Quantiles.

Reliability of estimates

Estimates with RSEs of 25% or more are not considered reliable for most purposes. Estimates with RSEs greater than 25% but less than or equal to 50% are annotated by an asterisk (*) to indicate they are subject to high standard errors and should be used with caution. Estimates with RSEs greater than 50% have their RSE suppressed in order to prevent the release of confidential data, and are annotated by a double asterisk (**). These estimates are considered too unreliable for general use. Occasionally an estimate of RSE may be suppressed and displayed as 'np' (not published). This occurs because the RSE cannot be estimated reliably, and in this case the RSE should be interpreted as being greater than 50%.

Excel downloads include small red arrows which indicate an annotation for cells that are asterisked

Excel downloads include np and RSE percentage data in a separate RSE Excel worksheet (tab)

<

CSV displays asterisk, np and RSE percentage data within the same sheet as the counts data

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Australian Bureau of Statistics												
2													
3	National Health Survey, 2017-18												
4	Country of birth - SACC code by Social marital status												
5	Counting: Selected persons (3)												
6													
7	Filters:												
8	Default Selected persons (3) (#)												
9													
10	Social m	Married i	Married i	Married i	Not marr	Not marr	Not marr	Total	Total - R	Total - Annotations			
11	Country of birth - SACC code												
12	Cook Isl	6.5	np	**	0	0		7.2	np	**			
13	Fiji	51.6	21.51		30.2	29.4	*	78.7	16.41				
14	French Pol	0	0		0	0		0	0				
15	Niue	0	0		0	0		0	0				
16	Samoa	30.3	31.8	*	8.3	np	**	38.5	28.97	*			
17	Samoa, A	0	0		7.1	np	**	7.1	np	**			
18	Tokelau	0	0		0	0		0	0				
19	Tonga	0	0		5.5	44.67	*	10.9	41.01	*			
20	Tuvalu	0	0		0	0		0	0				
21	Wallis a	0	0		0	0		0	0				
22	Pitcairn I	0	0		0	0		0	0				
23	Total	94.2	16.8		49.7	21.56		139.4	13.45				
24													
25	np RSE data is concealed												
26													
27	Dataset: National Health Survey, 2017-18, TableBuilder												
28													
29	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies may											
30	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.											
31													
32													
33	Symbol	Description											
34	#	(000's)											
35	**	Estimate has a relative standard error greater than 50% and is considered too unreliable for general use											
36	*	Estimate has a relative standard error of 25% to 50% and should be used with caution											
37													
38													
39	Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright												
40	ABS data licensed under Creative Commons, see abs.gov.au/ccby												
41													
NHS 2017-18 CSV													

Non-sampling error


The imprecision due to sampling variability and random adjustment should not be confused with inaccuracies that may occur because of imperfections in reporting by respondents and recording by interviewers, and errors made in coding and processing data. Inaccuracies of this kind are referred to as non-sampling error, and they may occur in any enumeration, whether it be a full count or a sample. Every effort is made to reduce non-sampling error to a minimum by careful design of questionnaires, intensive training and supervision of interviewers, and efficient operating procedures.

Sparsity

Some datasets have an additional quality measure called sparsity applied to tables with too many small cells. Sparsity does not apply to most Census of Population and Housing datasets.

Small cells may not be reliable, as not enough records have been selected in the sample to accurately estimate the population for that combination of characteristics.


In this example table showing Country of Birth (using the most detailed level of this hierarchical variable) by Social marital status, an error is located at the bottom of the spreadsheet.

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
296		Uganda	0	0	0	0	0
297		Zambia	0	0	0	0	0
298		Zimbabwe	0	0	0	0	0
299		Southern and East Africa, nec	0	0	0	0	0
300		Inadequately Described	0	0	0	0	0
301		At Sea	0	0	0	0	0
302		Not Stated	0	0	0	0	0
303		Not applicable	0	0	0	0	0
304		Total	0	0	0	0	0
305	Dataset: National Health Survey, 2017-18, TableBuilder						
306							
307	ERROR	The table has been suppressed as it is too sparse.					
308	ERROR	table cell values have been suppressed					
309							
310							
311	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
312	ABS data licensed under Creative Commons, see abs.gov.au/ccby						
313							

To continue working, you can try creating a variant of the original table. For example, removing a Not applicable category may reduce the number of small cells in the table and allow the data to be retrieved. Possible methods to reduce the size of the table include:

- removing one or more variables
- removing one or more categories
- using a less detailed level of a hierarchical variable
- creating a custom range to combine less relevant categories.

For this table, the Marital status categories of Not applicable and Married in a defacto marriage were removed. Then the full Country of birth variable was replaced with all categories within Oceania and Antarctica, still at the most detailed level of this hierarchical variable. This table was able to be retrieved.

	A	B	C	D	E	F	G
1		Australian Bureau of Statistics					
296		Uganda	0	0	0		
297		Zambia	0	7.4	10.4		
298		Zimbabwe	29.1	9.5	41.4		
299		Southern and East Africa, nec	0	0	0		
300		Inadequately Described	0	0	0		
301		At Sea	0	0	0		
302		Not Stated	0	0	0		
303		Not applicable	0	0	0		
304		Total	9916.3	8361.3	18269.7		
305	Dataset: National Health Survey, 2017-18, TableBuilder						
306							
307	INFO	Cells in this table have been randomly adjusted to avoid the release of confidential data. Discrepancies may occur between					
308	INFO	Continuous variables in this table have been randomly adjusted to avoid the release of confidential data.					
309	Symbol	Description					
310							
311	#	(000's)					
312	*	Estimate has a relative standard error of 25% to 50% and should be used with caution					
313	**	Estimate has a relative standard error greater than 50% and is considered too unreliable for general use					
314	© Copyright Commonwealth of Australia, 2021, see abs.gov.au/copyright						
315	ABS data licensed under Creative Commons, see abs.gov.au/ccby						
316							

Troubleshooting

- your name

- the names of your former and current organisations
- your old email address
- your user ID number

If you have changed your email address because you have changed your name, email microdata.access@abs.gov.au (<mailto:microdata.access@abs.gov.au>) using your new email account with:

- your former and current names
- the name of your organisation
- your user ID number

Can I share my log in details with colleagues or friends so they can access ABS registered products

No, you must not share your password with anyone

- Each user needs to register individually in their own name
- You have agreed to [Conditions of use \(/statistics/microdata-tablebuilder/responsible-use-abs-microdata/conditions-use\)](#) that you will not share your access credentials with any other person, including other people in your organisation
- Additional organisation users can access your organisation's paid subscriptions for free
- If users or organisations are found to have breached the conditions of use, access may be revoked

I cannot see the dataset I want to use when I log into TableBuilder

- Your organisation may not have subscribed to the data series you are trying to access. Check which datasets your organisation has access to in [Registration Centre \(https://registrationcentre.abs.gov.au/registration/login.jsp#OUTSIDE_PROC\)](https://registrationcentre.abs.gov.au/registration/login.jsp#OUTSIDE_PROC)
- Subscribe to additional data series in [How to access \(/statistics/microdata-tablebuilder/tablebuilder#how-to-access\)](#)

Tables

Why do I have to queue my table and why are graphs, maps and quantiles no longer available?

The ABS regularly reviews its security position in an ever-evolving cyber environment to ensure the best safeguards are in place for the data we hold. In our latest review, we identified an update needed to provide greater data protection. Some changes have been made to the way that table data is retrieved. This has been necessary to ensure the security and privacy of data. You will still be able to access the same data as before and all your saved tables and custom groups will still be available.

In the updated version of TableBuilder, when you create a table, you [submit your table to the queue \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table\)](#) and it will be populated with data and returned to you for download, rather than having it returned on screen. This is similar to the previous process used to generate large tables. This process is likely to take less than a minute for small tables, several minutes for large tables and an hour or longer for very large tables.

As data is returned in downloads rather than on screen, the following functions are no longer available:

- quantiles
- graphs
- maps

Why did my table download as a CSV

The default download format is CSV, you can choose your preferred download format in the top right corner before you queue your table.

If you queue a table in XLSX format and then open the table outline using the view link from the Saved and queued tables view the default format will be set to CSV. You can change the format before you re-queue the table.

What are the largest tables I can create in TableBuilder

Tables can be up to 40 million cells, including totals and wafers. Very large tables may take several hours to populate

depending on the size of the table and other tables in the queue.

- Excel 2007 has a limit of 16,384 columns x 65,000 rows and less than 100,000 cells.
- use CSV to download larger tables

How can I reduce the size of a large table

Options to reduce the size of your table include:

- [Remove categories \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#remove-categories\)](/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#remove-categories) that you may not be interested in, such as Not applicable categories.
- Turn off [totals \(/statistics/microdata-tablebuilder/tablebuilder/cell-counts-sorting-totals-and-other-table-options#show-or-hide-totals-in-a-table\)](/statistics/microdata-tablebuilder/tablebuilder/cell-counts-sorting-totals-and-other-table-options#show-or-hide-totals-in-a-table) - this does not change the size of your large table but can improve the time it takes to populate the table. However if you are planning to use totals, you should use the totals generated within TableBuilder rather than summing the interior cells. See also [Totals \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#:~:text=most%20TableBuilder%20datasets.,Totals,-In%20TableBuilder%2C%20totals\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#:~:text=most%20TableBuilder%20datasets.,Totals,-In%20TableBuilder%2C%20totals) on the Confidentiality page.
- Group categories together that you want to include but do not need to view separately, by creating a [Custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data) group.

How can I display my table more effectively

There are a number of options to improve your displayed table layout. These do not affect your total cell count for Large table mode.

- Hide totals, by clicking on the three dots menu beside each variable within your row headings and unticking Total.
- Select [Zero suppression \(/statistics/microdata-tablebuilder/tablebuilder/cell-counts-sorting-totals-and-other-table-options#zero-suppression\)](/statistics/microdata-tablebuilder/tablebuilder/cell-counts-sorting-totals-and-other-table-options#zero-suppression) for rows and/or columns in the Options menu. This hides rows or columns where all cells are zeros. If you are using wafers, then this option hides rows or columns where all cells are zeros across all wafers, so rows or columns of zeros may appear in some wafers.

I can't add mesh blocks to my table

TableBuilder has a limit of adding 60,000 categories from any one variable to a table. As there are more than 60,000 mesh blocks in each of Australia, New South Wales, Victoria and Queensland you need to select fewer geographic categories when [using mesh blocks \(/statistics/microdata-tablebuilder/tablebuilder/cell-counts-mesh-blocks-sorting-totals-and-other-table-options#using-mesh-blocks\)](/statistics/microdata-tablebuilder/tablebuilder/cell-counts-mesh-blocks-sorting-totals-and-other-table-options#using-mesh-blocks). If you have already ticked too many mesh blocks, click untick all to start again.

You are also unable to add mesh blocks to tables in combination with certain variables, see [Confidentiality \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error/latest#cross-tabulation-restrictions\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error/latest#cross-tabulation-restrictions) for more information.

Why do I have dashes in my table

A table outline preview is available within TableBuilder. To see the data for your table, [queue and download \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table\)](/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table) your table.

Can I upload my table back into TableBuilder

No, you can only save tables in TableBuilder and then open them in a later session.

You can share and upload [custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data) variables that you have created either inside or outside TableBuilder.

After editing or sharing a custom group, upload is not working

There are a number of errors that can occur when [Uploading custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data#upload-a-custom-data-group\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data#upload-a-custom-data-group) including:

- leading zeros have been dropped when editing in Excel
- reusing an existing custom data group name
- not having access to the right dataset, or not having that dataset open when uploading
- errors in the header row

- loading a file type other than CSV
- file is too large (greater than 20MB)

My table with nested variables on a row, column or wafer is causing problems

[Nested variables \(/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-multiple-variables-to-rows-columns-or-wafers\)](/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-multiple-variables-to-rows-columns-or-wafers) (multiple variables nested on one row, column or wafer) can cause issues for some TableBuilder functions. Nesting up to 10 variables is possible for some variables but may cause performance issues. Nesting fewer variables is recommended, particularly for large classifications

Data

Which geographic areas and variables are available in TableBuilder

Data item lists for each dataset available in TableBuilder datasets are available via [TableBuilder topics \(/statistics/microdata-tablebuilder/tablebuilder/topics\)](/statistics/microdata-tablebuilder/tablebuilder/topics) and [Available microdata \(/statistics/microdata-tablebuilder/available-microdata-tablebuilder\)](/statistics/microdata-tablebuilder/available-microdata-tablebuilder).

In TableBuilder in the Table view, the i links next to each dataset name link to the associated web information and data item list.

Is Census data before 2006 available in TableBuilder

No. TableBuilder includes Census data from 2006 onwards. See [Historical Census Data \(/census/find-census-data/historical\)](/census/find-census-data/historical) for earlier data.

Can I create my own variables and classifications to use in a table

- Multiple variables cannot be combined to create a new variable. For example, Age and Sex cannot be merged to create a single variable. However, filters can be used to display certain categories only. For example, Sex=Male and Age=17 can be added as filters to a table so that the data in a table applies only to male 17 year olds. See [Add and remove a filter \(/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-and-remove-a-filter\)](/statistics/microdata-tablebuilder/tablebuilder/building-advanced-tables#add-and-remove-a-filter).
- You can create a new category by collapsing an existing variable categories. For example, Age categories in single years can be collapsed to create a new category for 0-17 year olds. See [Custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data).
- You can also upload your own variable classifications. New classifications must use existing variable categories within TableBuilder. For example, a new geographic classification that has been constructed using mesh blocks can be uploaded to TableBuilder. See [Custom data \(/statistics/microdata-tablebuilder/tablebuilder/custom-data\)](/statistics/microdata-tablebuilder/tablebuilder/custom-data).

Why do I have only zeroes in my downloaded table

There are several reasons this may happen:

- [Sparsity \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#sparsity\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#sparsity) settings may prevent your table from displaying data. Some datasets have an additional quality measure applied to tables with too many very small cells. This measure is particularly relevant to survey datasets and has not been applied to Census TableBuilder datasets. Very small cells of a table using survey data may not be reliable, as not enough records have been selected in the sample to accurately estimate the population for that combination of characteristics. A sparsity error appears below the table where this has occurred.
- The ABS sometimes releases 'shell tables' in advance of releasing a dataset, to allow you to become familiar with the variables and structure of the dataset and to set up and save tables for future use. If your table includes variables that have not been released yet in the dataset you are using, it shows zeros.
- There may be an outage with the TableBuilder system. If the issue is not caused by sparsity or shell tables, report the issue by emailing microdata.access@abs.gov.au (<mailto:microdata.access@abs.gov.au>).

How does perturbation affect my results

[Perturbation \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#perturbation\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#perturbation) is applied across all non-zero cells in a table, including the totals cells. Perturbation may change the true cell value by either increasing or decreasing the value by a small amount. This introduces almost no bias. However, small cells may change by a large amount in proportion to the true value, and therefore should not be relied upon. Other factors also affect the reliability of small cells, such as sampling error, respondent errors and processing errors.

Why don't the interior cells in my table add up to the totals displayed

All non-zero cells in tables are subject to [perturbation \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#perturbation\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#perturbation), a small adjustment made to cell values, including totals, to protect the confidentiality of the data. In TableBuilder, totals are not calculated by summing the interior values of the table. Instead, more accurate totals are provided by calculating the true total, and then perturbing this value.

Why is there sometimes a large difference between the sum of the interior cells and totals displayed

[Perturbation \(/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#perturbation\)](/statistics/microdata-tablebuilder/tablebuilder/confidentiality-and-relative-standard-error#perturbation) makes small changes to all estimates including both the interior cells of the table and the totals. If you attempt to reconstruct a total on the basis of the perturbed interior cells, you are adding together the small changes made to each cell which may result in a large change relative to the perturbed total. It is recommended that totals are constructed in TableBuilder, rather than by summing the interior cells from an exported table.

Can I create medians and means in TableBuilder

[Summation options for continuous variables \(/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables\)](/statistics/microdata-tablebuilder/tablebuilder/summation-options-continuous-variables), such as sums, medians and means can be created in TableBuilder for continuous variables. Some datasets, such as Census TableBuilder, contain only categorical variables. To create medians and means for categorical variables, download the data into a spreadsheet to generate these formulas.

Performance

TableBuilder is timing out

TableBuilder times out when no action has been taken for 30 minutes. Log in again using your user ID and password.

When I submit a table to queue, it takes a long time to return

The time it takes for the system to process and return your table depends on size of your table and the number of other tables in the queue.

- Small tables normally complete within a few seconds or a minute.
- Larger tables may take several minutes.
- Very large tables may take several hours.

Check the Saved and queued tables screen (via the three dots menu at the top right) to see if your table has finished processing.

Click refresh on your browser to update the queue status.

If your large table has still not returned after 24 hours, contact microdata.access@abs.gov.au ([mailto:microdata.access@abs.gov.au?Subject=My large table has not completed after 24 hours&Body=Dear ABS%0D%0A%0D%0APlease check the progress of the large tables I have queued.%0D%0A%0D%0AName: %0D%0AUser ID \(this is a number\): %0D%0AOrganisation: %0D%0APhone number: %0D%0ALarge table name/s: %0D%0A%0D%0ADate/time queued: %0D%0A\)](mailto:microdata.access@abs.gov.au?Subject=My%20large%20table%20has%20not%20completed%20after%2024%20hours&Body=Dear%20ABS%20%0D%0A%0D%0APlease%20check%20the%20progress%20of%20the%20large%20tables%20I%20have%20queued.%0D%0A%0D%0AName:%20%0D%0AUser%20ID%20(this%20is%20a%20number):%20%0D%0AOrganisation:%20%0D%0APhone%20number:%20%0D%0ALarge%20table%20name/s:%20%0D%0A%0D%0ADate/time%20queued:%20%0D%0A))).

My download does not appear to be progressing or is taking a long time

- [Different browsers \(/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table~:text=Browsers%20may%20have%20different%20download%20functions\)](/statistics/microdata-tablebuilder/tablebuilder/building-basic-table#queue-and-download-a-table~:text=Browsers%20may%20have%20different%20download%20functions) have different functions and speeds to download tables. Not all browsers show progress while downloading.
- Very large tables may take a several minutes to download even though they have been zipped.

My downloaded zip file is empty

Some special characters cause queue issues and your zip file will be empty when it completes. Do not use these characters when naming your queued table:

- ? * < > / \ |

It takes a long time to add a new variable to my table

While working in a large table, it can be slow to drag variables between rows, columns and wafers. This may happen for:

- large datasets
- large variable classifications with hundreds or thousands of categories.

When I search all datasets my results are incomplete

The all datasets search (top right corner) returns a maximum of 2000 results per type of result:

- datasets
- tables (saved or predefined)
- variables
- categories

If your search exceeds 2000 for one of these search types, TableBuilder displays (2000+) in red in the bottom left corner against that type. You can:

- refine your search to a more specific term to return complete results
- use the dataset specific search to view results for that dataset only - open the dataset you are interested in and use the dataset search in the bottom left corner

When I search all datasets TableBuilder is stuck at the loading screen

For some searches, your search may get stuck at the loading screen, and not return your results. To resolve this error, follow the [steps \(/statistics/microdata-tablebuilder/tablebuilder/search-and-save#:~:text=All%20datasets%20search%20error\)](#) to close the session and clear the cache.

In Custom data, is there a limit on the number of areas that can be included in my custom geographic area

There is no limit on the number of areas that can be included for your custom group. However, when you are editing very large number of areas the system may slow down.

An error message box is displayed asking you to contact your administrator

If you get an error 'The requested URL was rejected. Please consult with your administrator.' you need to provide details of the actions you were performing in TableBuilder when the error occurred. Send the details to microdata.access@abs.gov.au (<mailto:microdata.access@abs.gov.au>).

TableBuilder takes a long time on the log in page or when I open TableBuilder

There is a known issue with some browsers where the 'processing' blue circle appears even though no action is underway. Move your cursor so that this disappears and you can continue working.

Why can't I add my summation option using click and drag

There is a known issue if you tick median or mean and then try to drag the summation variable onto column, row or wafer pop up, TableBuilder gives you an error:

Only one summation option can be added to a table

To add median or mean use the add to row, column or wafer buttons at the top of the left panel instead.

Adding sum to your table is not affected by this error.

Why is my queued table returning an error

There is a known issue for some summation variables where the queued table results in a status of error. We are working with the software provider to resolve this issue.

Try a different summation variable or contact microdata.access@abs.gov.au (<mailto:microdata.access@abs.gov.au>).

I am having a technical problem with TableBuilder, how do I report this

If you are not able to resolve your query through the help provided in this guide, email microdata.access@abs.gov.au (<mailto:microdata.access@abs.gov.au>).

If you would like assistance to analyse your table results, submit a [Consultancy services request form \(https://www4.abs.gov.au/web/survey.nsf/contactform/\)](https://www4.abs.gov.au/web/survey.nsf/contactform/) . This is a charged service.